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STAFF COLLEGE

SOs' HANDBOOK

1. Contents. This handbook is divided into five parts:-

   a. Part I. Org.

   b. Part II. Staff Tables.

   c. Part III. Eqpt Capabilities.

   d. Part IV. Staff Planning Data.

   e. Part V. Comms Diagrams.

2. Page Numbers. Blocks of page numbers have been allotted to each part of the handbook for ease of ref and revision. Part I has been allotted page numbers 1-199, Part II pages 200-299, Part III pages 300-399, Part IV pages 400-499 and Part V pages 500-599.

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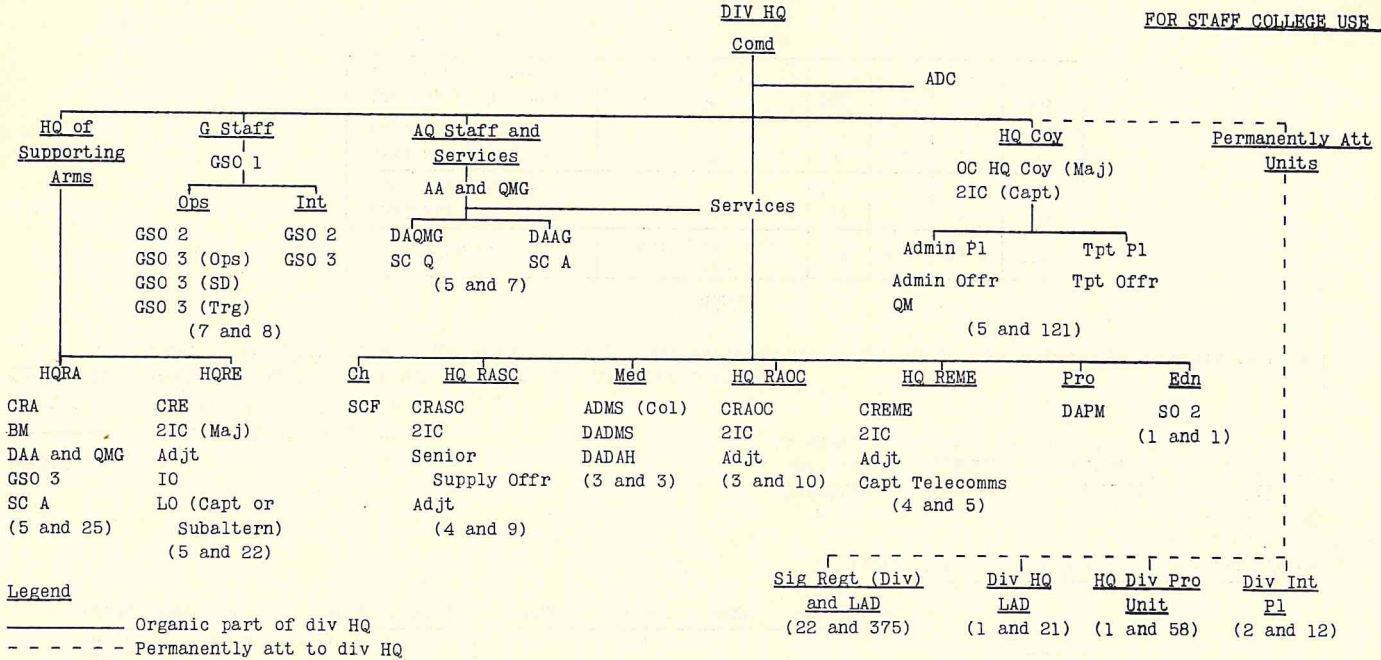

Legend

———— Organic part of div HQ

- - - - - - Permanently att to div HQ

Figures, such as (5 and 25) = str ie 5 Offrs and 25 OR

SUMMARY

Totals	Offrs	OR	MCs	Vehs	Tlrs
Div HQ less permanently att	46	211	7	70	47
Div HQ incl permanently att	72	677	34	189	154

DIV HQ

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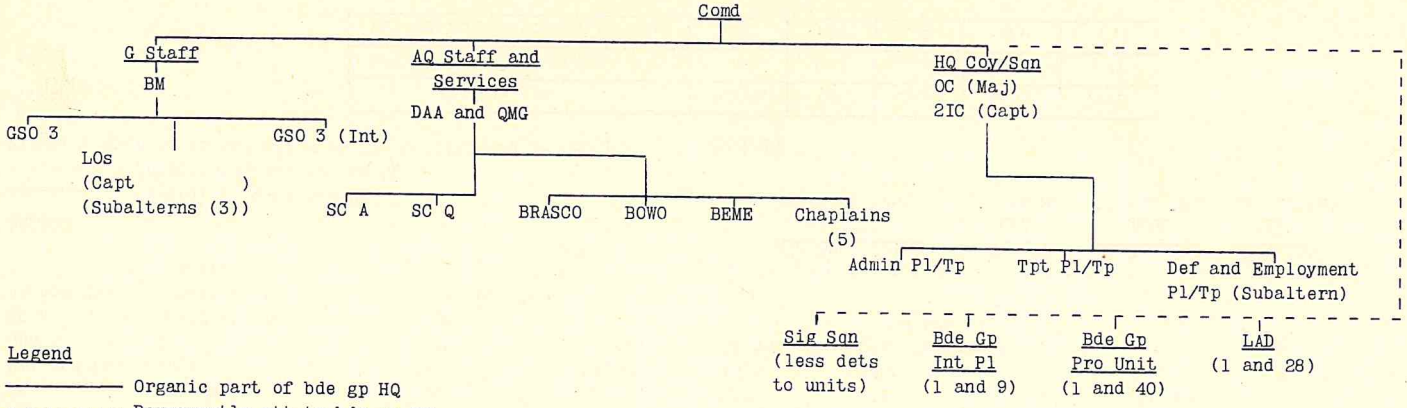
ARMD AND INF BDE GP HQ

(HQ org is identical for both types of bde gp)



Legend

———— Organic part of bde gp HQ

- - - - - - Permanently att to bde gp HQ

Notes. 1. DADST and DADOS on estb not implemented. BOWO replaces DADOS.

2. 5 OR, 1 veh and 1 tlr of sig sqn (armd bde gp) available to serve inf APC bn when dismounted in addition to V Tp.

SUMMARY

Totals	Offrs (incl chaplains)	OR	MCs	Vehs	Tlrs
Armd/inf bde gp HQ less permanently att	21	84	4	20	18
Armd bde gp HQ incl permanently att	29	255	19	66	57
Inf bde gp HQ incl permanently att	29	250	19	65	56

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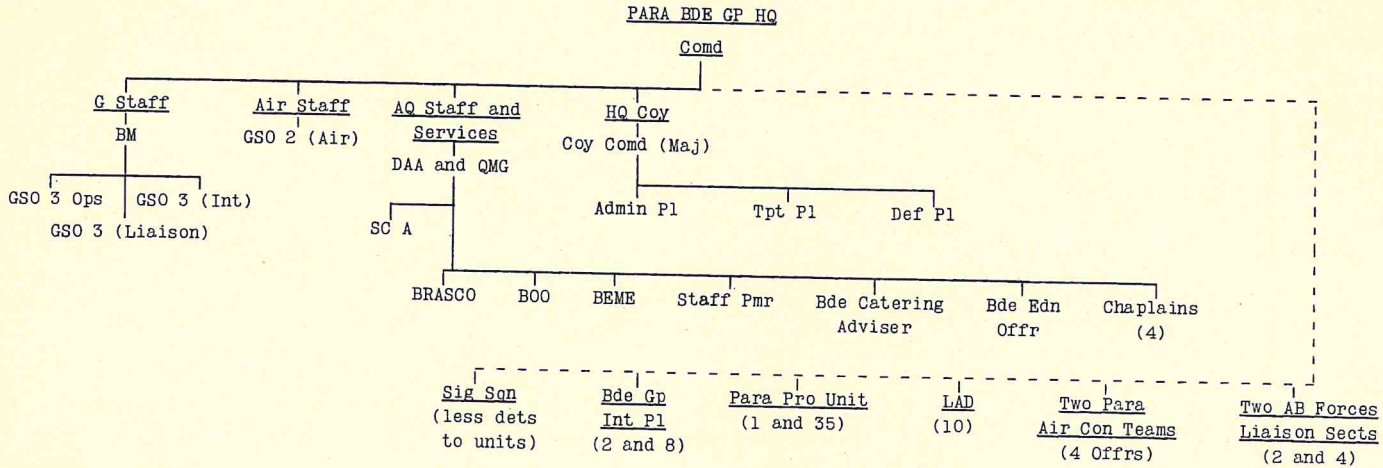

Legend

——————— Organic part of bde gp HQ
- - - - - - - - - - Permanently att to bde gp HQ

Note. RAF det not incl.

SUMMARY

Totals	Offrs	OR	Vehs	Tlrs
Bde gp HQ less permanently att	22	98	17	16
Bde gp HQ incl permanently att	43	275	55	54

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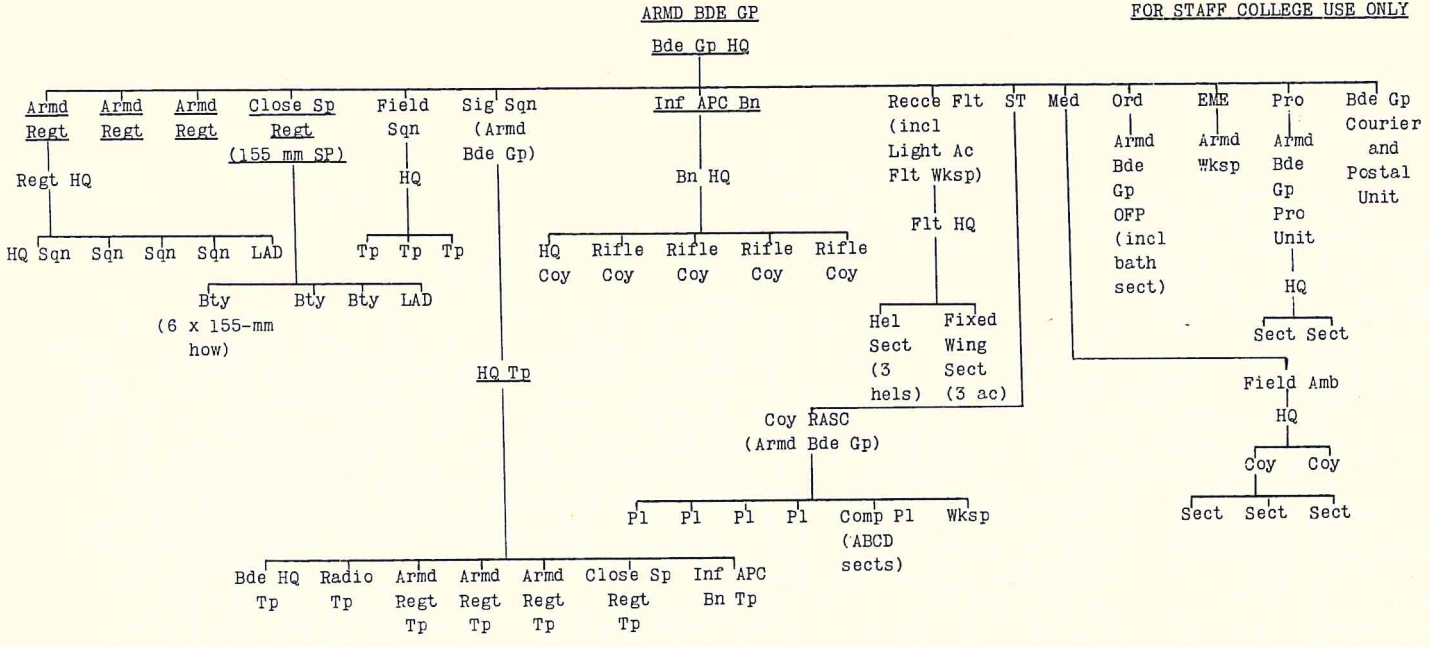

SUMMARY

Offrs	OR	Wheels	Tracks	Tlrs	MCs	Guns
292	4,814	836	334	361	111	26 (incl bn anti-tank weapons)

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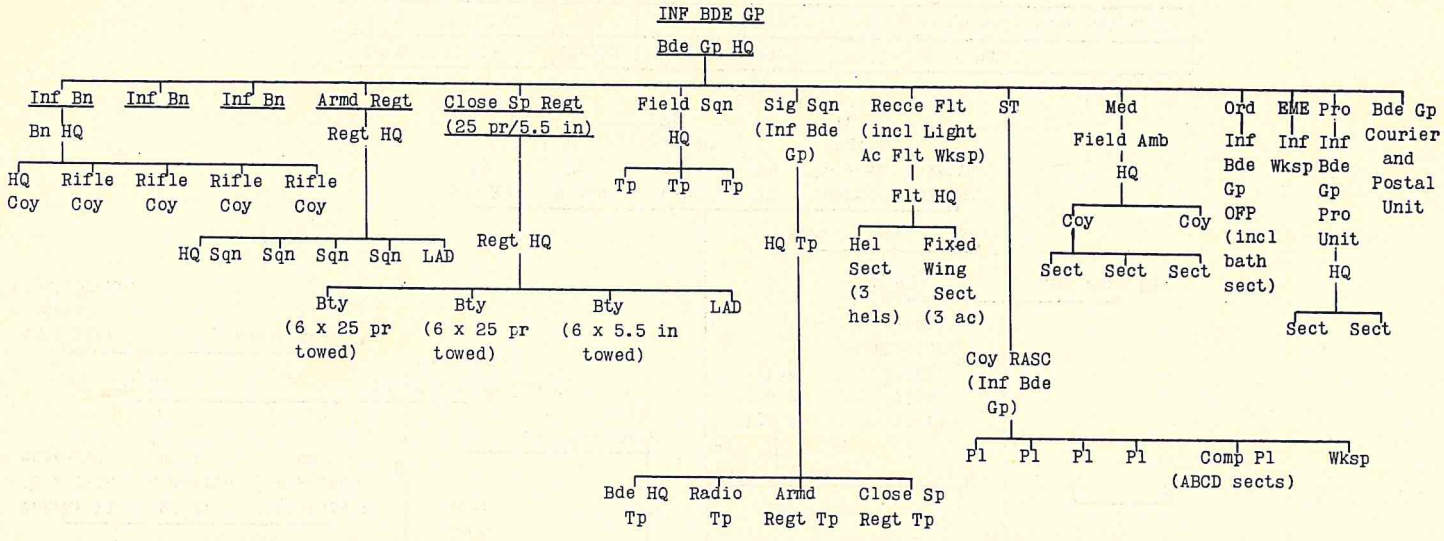

Notes. 1. Serial 2 of the summary shows totals of men and vehs if inf bns are mounted in APCs (Saracen).

2. Serial 3 of the summary shows totals of men and vehs of an airptbl inf bde gp based on org currently in use in 3 Div. Main differences are:-

a. Close sp regt is equipped with 105-mm pack hows.

b. Sig sqn has additional three tps for inf bns.

SUMMARY

Serial	Offrs	OR	Wheels	Tracks	Tlrs	MCs	Guns
1	270	4,734	778	65	438	105	42 (incl bn anti-tank weapons)
2	282	5,103	1,057	65	372	96	42 (incl bn anti-tank weapons)
3	279	5,294	703	63	446	121	42 (incl bn anti-tank weapons)

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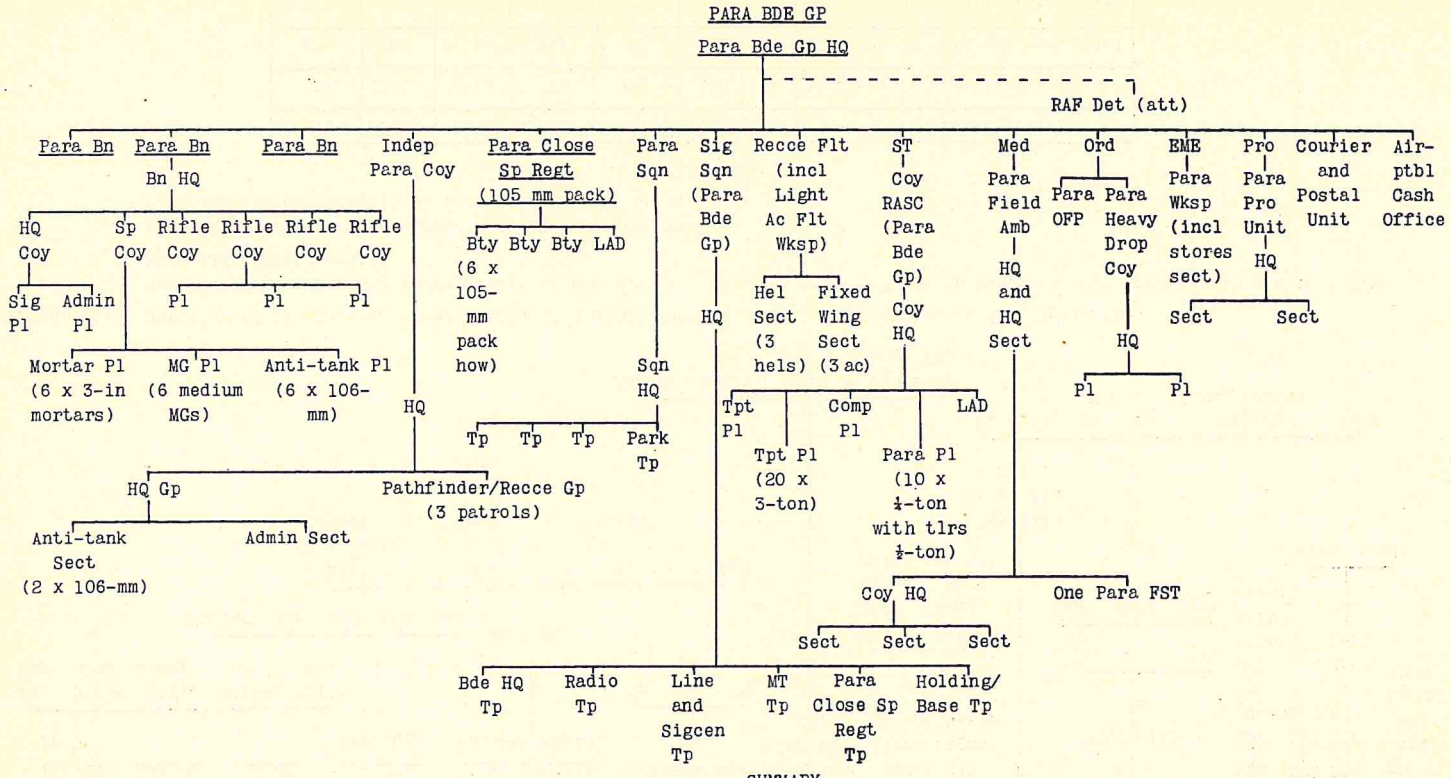

SUMMARY

Offrs	OR	Wheels	Tracks	Tlrs	Guns
239	3,834	491	1	391	38 (incl bn anti-tank weapons)

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ARMD REGT

Regt HQ

1 x scout car (CO)
1 x ¼-ton (radio) and tlr
1 x 1-ton APC (altn comd veh)

1 x scout car (LO)
3 x main battle tanks (comd) (a)
1 x br layer tank

HQ Sqn

HQ

1 x ¼-ton (radio) (A2 Echelon) (Sqn Ldr) and tlr
1 x ¼-ton (radio) (A1 Echelon) (RSM) and tlr
1 x 1-ton (radio) (A2 Echelon) (2IC Sqn)

Recce Tp

16 scout cars (recce)

Admin Tp

3 x MCs
5 x ¼-ton (radio) for MO
QM and tlr
Tpt offr
Tech QM
RSM
1 x 1-ton RQMS
3 x 1-ton water and 1 tlr
1 x 1-ton med
9 x 3-ton ammo/POL
4 x 3-ton office, offrs mess, stores, rations and 2 tlrs
3 x 3-ton (binned) tech stores and 2 tlrs

Res Tanks

5 x main battle tanks
1 x main battle tank (con) (b)

Sqn

Sqn

Sqn

HQ

3 x main battle tanks (con) (b)
1 x tank dozer
1 x scout car (LO)
1 x ¼-ton (radio) (SSM) and tlr
1 x ARV
1 x 1-ton (radio) APC } from LAD
1 x 3-ton with winch

Tp

3 x main battle tanks (c)

Tp

3 x main battle tanks (c)

Tp

3 x main battle tanks (c)

Tp

3 x heavy gun tanks (c)

LAD

1 x MC
1 x ¼-ton (radio)
1 x 1-ton (radio)
1 x 1-ton welding
2 x 3-ton
1 x tractor heavy rec
5 x tlrs
3 x 1-ton (radio) APC } with
3 x 3-ton with winch } sqns
3 x ARVs (Centurion) }
1 x 1-ton (radio) APC } with
1 x ARV (Conqueror) } regt HQ

Admin Tp

1 x 1-ton APC (amb)
1 x 1-ton SQMS and tlr
7 x 3-ton ammo/POL
1 x 3-ton cooks and tlr

Sig Tp

1 x MC
1 x 1-ton (radio) and tlr
1 x 3-ton and tlr

SUMMARY
(incl permanently att)

	Offrs	OR	MCs	Wheels	Tracks	Tlrs	Total Vehs excl MCs and Tlrs	Remarks
Armd regt incl chaplain, 1 OR, 1 veh and tlr	42	485	3	86	58	19	144	Incl 6 res tanks, 2 OR carried in sig tp tpt.
Armd sqn incl LAD det	8	124	-	14	17	3	31	Incl 2 wheels, 1 ARV, 19 OR from LAD and 1 radio tech from sig tp.
Sig tp	-	12	1	2	-	2	2	Incl 5 OR carried in armd regt tpt.
LAD incl sqn dets	2	99	1	13	4	5	17	Incl 6 wheels, 3 ARVs and 57 OR normally with sqns.
TOTAL, armd regt incl sig tp and LAD	44	596	5	101	62	26	163	

Notes

(a) Comd tanks have 1 C42, C13 and B47. The altn comd veh has a C11 and a C42.
(b) Con tanks have 2 C42 and 1 B47 sets.
(c) Gun tanks have 1 C42 and 1 B47 sets.
(d) Of the 30 x 3-ton ammo/POL 11 have special racks for ammo.

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ARMD CAR REGT

Regt HQ

1 x MC
1 x car heavy utility (radio)
1 x ¼-ton (radio) (RSM)
1 x scout car (CO)
3 x APCs (comd)

Sig Tp

LAD

HQ Sqn

1 x APC (comd) (Sqn Ldr)
1 x ¼-ton (radio) (Sqn 2IC)

Intercomm Tp

7 x scout cars (2IC, MO, IO, LO, Tech QM, and two for liaison or step-up)

Admin Tp

1 x MC
1 x ¼-ton (radio) (QM)
1 x ¼-ton (radio) (SSM)
1 x 1-ton (radio) (TQMS)
1 x APC (amb)
10 x 3-ton
3 x 3-ton (binned)

Sqn

Sqn

Sqn

1 x MC
2 x ¼-ton (radio) (LO and SSM)
1 x scout car
1 x APC (comd) (Sqn Ldr)
1 x APC (comd) (Sqn 2IC)

Admin Tp

1 x 1-ton (radio) (SQMS)
1 x APC (amb)
4 x 3-ton

Tp

2 x armd cars
2 x scout cars (recce)

Tp

Tp

Tp

Tp

Tp

Sp Tp

1 x scout car (recce) (Tp Ldr)
5 x APCs (each 1 NCO, 1 dvr, 6 tprs)

SUMMARY

(incl permanently att)

	Offrs	OR	MCs	Wheels	Tracks	Tlrs	Total Vehs excl MCs and Tlrs	Remarks
Armd car regt	42	539	5	155	-	23	155	
Armd car sqn	10	158	1	44	-	7	44	Incl 2 OR, 1 veh and 1 tlr att from sig tp and 13 OR, 2 vehs and 1 tlr att from LAD.
Sig tp	-	21	1	5	-	4	5	Incl 4 OR carried in armd car regt tpt.
LAD	1	74	1	14	-	7	14	Incl sqn sects.
TOTAL, armd car r' incl sig tp and LAD	43	634	7	174	-	34	174	

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ARMD RECCE REGT

Regt HQ

1 x MC
1 x car heavy utility (radio)
1 x ¼-ton (radio) (RSM)
3 x APCs (comd)
1 x scout car (CO)
1 x scout car (2IC)

Sig Tp

LAD

HQ Sqn

1 x APC (comd) (Sqn Ldr)
1 x ¼-ton (radio) (Sqn 2IC)

Intercomm Tp

1 x ¼-ton (radio) (MO)
4 x scout cars
(LO, QM and two for liaison or step-up)

Admin Tp

1 x ¼-ton (radio) (QM(Tech))
1 x 1-ton (med)
10 x 3-ton
3 x 3-ton (binned)

Armd Car Sqn

1 x MC
2 x ¼-ton (radio) (LO + SSM)
1 x APC (comd) (Sqn Ldr)
1 x APC (comd) (Sqn 2IC)
1 x scout car (Sig Sgt)

Admin Tp

1 x 1-ton (radio) (SQMS)
4 x 3-ton

Tp

2 x armd cars
2 x scout cars (recce)

Tp **Tp** **Tp** **Tp** **Tp** **Tp**

Armd Car Sqn

Airptbl Sqn

2 x scout cars (spare fwd con and spare rear link)
1 x ¼-ton (radio) + tlr (Sqn Ldr)
1 x ¼-ton (radio) + tlr (Sqn 2IC)
1 x ¼-ton (radio) + tlr (LO + SSM)

Sp Tp

1 x scout car (recce) (Tp Ldr)
5 x APCs (each NCO, dvr and 5 tprs)

Tp **Tp** **Tp** **Tp** **Tp**

4 x scout cars (recce)

Admin Tp

1 x ¼-ton (radio) (SQMS)
5 x ¼-ton + tlrs

Sea/Land Admin Tp

2 x 3-ton + tlrs

SUMMARY
(incl permanently att)

	Offrs	OR	MCs	Wheels	Tracks	Tlrs	Total Vehs excl MCs and Tlrs	Remarks
Armd recce regt	39	428	3	142	-	38	142	
Armd car sqn	10	141	1	43	-	7	43	Incl 2 OR, 1 veh and 1 tlr att from sig tp and 13 OR, 2 vehs and 1 tlr att from LAD.
Airptbl sqn	8	86	-	36	-	12	36	Incl 2 OR, 1 veh and 1 tlr att from sig tp and 11 OR, 2 vehs and 1 tlr att from LAD.
Sig tp	-	21	1	5	-	4	5	Incl 4 OR carried in armd recce regt tpt.
LAD	1	74	1	14	-	7	14	Incl sqn sects.
TOTAL, armd recce regt incl sig tp and LAD	40	523	5	161	-	49	161	

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AIRPTBL AND TRG REGT, HOUSEHOLD CAVALRY

Regt HQ
3 x cars heavy utility (radio)
1 x car heavy utility
1 x ¼-ton + tlr (RCM)
4 x scout cars (CO, 2IC, IO)
2 x ¼-ton + tlr

Sig Tp

LAD

HQ Sqn
1 x ¼-ton (radio) (Sqn Ldr)
1 x ¼-ton (radio) (MO)
1 x car heavy utility (radio) (Sqn 2IC)

Intercomm Tp
3 x scout cars (QM(Tech) and two for liaison or step-up)

Admin Tp
1 x 1-ton (med)
9 x 3-ton
2 x 3-ton (binned)

Airptbl Sqn

Airptbl Sqn
1 x ¼-ton (radio) + tlr (Sqn Ldr)
1 x ¼-ton (radio) + tlr (Sqn 2IC)
1 x ¼-ton (radio) + tlr (LO + SCM)
2 x scout cars
1 x ¼-ton and tlr (from LAD)

Trg and Holding Sqn

Tp — 4 x scout cars (recce)

Tp

Tp

Tp

Tp

Admin Tp
1 x ¼-ton (radio) (SQMC)
5 x ¼-ton + tlrs

Sea/Land Admin Tp
2 x 3-ton + tlrs
1 x 1-ton + tlr (from LAD)

SUMMARY
(incl permanently att)

	Offrs	OR	MCs	Wheels	Tlrs	Total Vehs excl MCs and Tlrs	Remarks
Airptbl and trg regt	27	244	-	96	28	96	Excl trg and holding sqn.
Airptbl sqn	8	64	-	32	9	32	Excl sea/land admin tp; incl 4 OR, 1 veh and 1 tlr from LAD and 1 OR from sig tp.
Sig tp	-	13	-	3	3	3	Incl 4 OR carried in airptbl regt tpt.
LAD	1	33	-	9	4	9	Incl sqn sects.
TOTAL, airptbl and trg regt incl sig tp and LAD	28	290	-	108	35	108	Excl trg and holding sqn.

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AIRPTBL GW SQN

Sqn HQ
(3 and 12)
4 x ¼-ton (radio) + tlr
1 x 1-ton (radio) + tlr

GW Tp

GW Tp
(1 and 13)
1 x ¼-ton (radio)
4 x Hornet launchers

GW Tp

GW Test Tp
(8)
2 x 1-ton compressor with generator and functional test unit tlrs

Admin Tp
(1 and 41)
4 x 1-ton (radio) (resupply vehs)
3 x 1-ton (ammo and POL) + tlr
1 x 1-ton + tlr (water)
4 x 1-ton GS + tlr
1 x ¾-ton med + tlr
1 x ¼-ton (radio)

LAD
(1 and 25)
6 x ¼-ton + tlr
3 x 1-ton

Note. Figures such as "4 and 27" = str, ie 4 Offrs and 27 OR.

SUMMARY
(incl permanently att)

Offrs	OR	Wheels	Tlrs	Total Vehs
8	125	45	17	45

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Detail	Fwd Delivery Sqn	Att	Total
Pers			
Offrs	3	-	3
OR	24	19	43
Vehs			
MCs	3	-	3
Trucks - ¼-ton, GS	2	-	2
1-ton, GS, cargo	1	-	1
3-ton, GS, cargo	2	-	2
3-ton, GS, machinery I 30	1	-	1
Tlrs - ¼-ton, cargo	1	-	1
1-ton, water	1	-	1
2-ton, cargo	1	-	1
2-ton, binned	1	-	1
2-ton, servicing	1	-	1
Weapons			
LMGs	2	-	2
RL, 3.5-in	1	-	1

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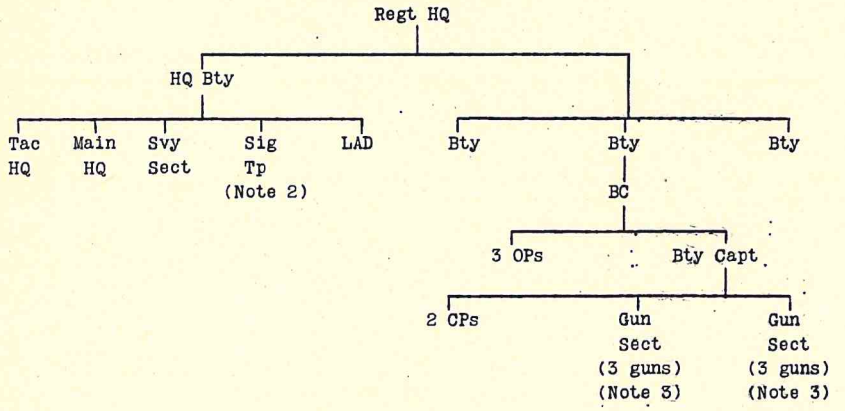
CLOSE SP AND GEN SP (NON-NUCLEAR) REGTS

Basic org (less Cdo Regt RA see Note 1)



Variations when supporting

	Para Bde Gp	Airptbl Bde Gp	Inf Bde Gp	Armd Bde Gp
Eqpt	18 x 105-mm pack	18 x 105-mm pack	12 x 25-pr 6 x 5.5-in	18 x 155-mm SP
Offrs	37	36	37	38
OR	483	550	589	654
MCs	-	5	12	12
Wheels	108	148	124	97
Tracks	-	-	-	31
Tlrs	90	117	65	57

(Strs incl permanently att)

Notes

1. The final org of the Cdo Regt RA is still under discussion. The present org is a regt with two gun btys each of two tps of 3 x 105-mm pack, and a HQ and trg bty.
2. Sig tp is arty pers but the att sig tp from the bde gp sig sqn works with the tp. R SIGS pers number approx 13 OR.
3. Sects normally deployed together to form one six gun bty position. The bty is not org for sects to work separately for long periods.

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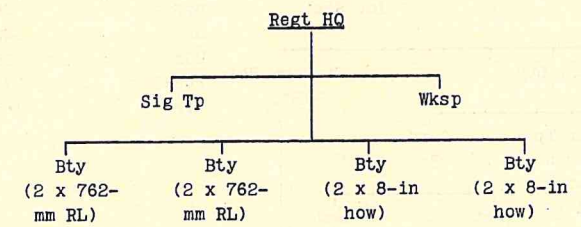
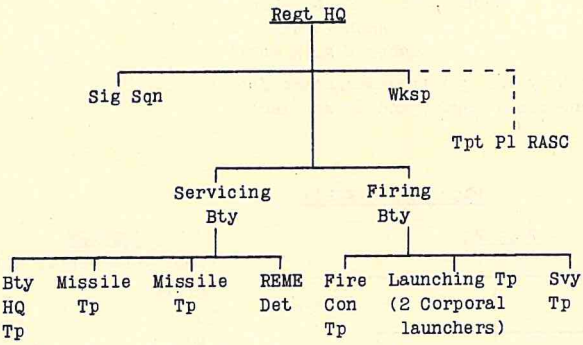
GEN SP REGT (HJ/8 IN)



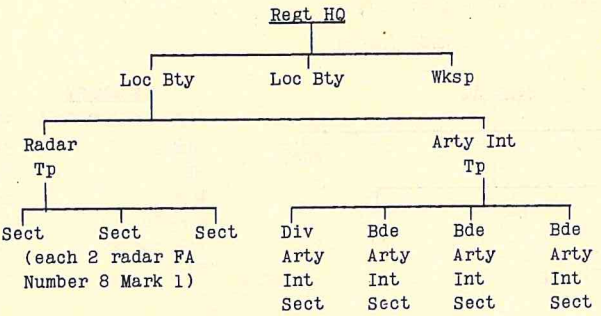
SUMMARY (incl permanently att)	
Offrs	40
OR	547
MCs	27
Wheels	141
RLs	4
Guns	4
Tlrs	91

REGT (SSGW)



SUMMARY (incl permanently att)	
Offrs	31
OR	625
MCs	20
Wheels	197
Tracks	2
Launchers	2
Tlrs	100

REGT (LOC SR)



SUMMARY (incl permanently att)	
Offrs	36
OR	439
MCs	9
Wheels	106
Tlrs	102

The Corps Arty Int Tp is org on a separate estb.

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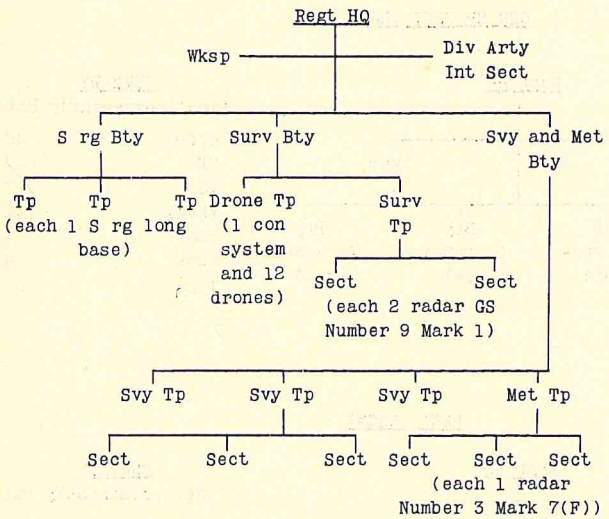
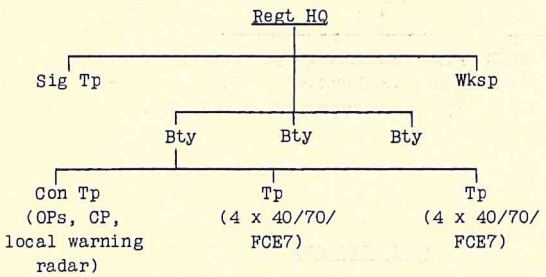
REGT (LOC LR)



SUMMARY (incl permanently att)	
Offrs	46
OR	642
MCs	13
Wheels	171
Tlrs	165

The sig tp (corps arty int gp) provides comms for both short and long range regts, and is not incl in the summaries.

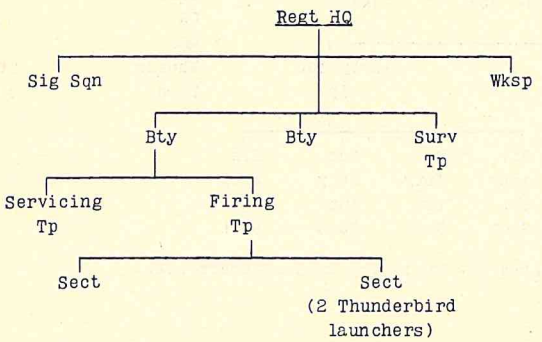
REGT (40/70/FCE7)



SUMMARY (incl permanently att)	
Offrs	42
OR	745
MCs	24
Wheels	159
Guns	24
Tlrs	113

The peacetime estb is for only two btys.

REGT (SAGW)



SUMMARY (incl permanently att)	
Offrs	36
OR	514
MCs	21
Wheels	126
Launchers	8
Tlrs	95

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INDEP PARA SQN

Sqn HQ
(3 and 38)

Tp	Tp	Tp	Park Tp
(2 and 55)			(1 and 13)
			2 light wheeled tractors
			1 angledozer size IV

SUMMARY
(incl permanently att)

Offrs	10
OR	216
MCs	2
Wheels	22
Tracks	1
Tlrs	17

FIELD SQN

Sqn HQ
(4 and 61)
2 medium wheeled tractors
2 air compressors

Tp	Tp	Tp
(1 and 56)		
1 light wheeled tractor		

SUMMARY
(incl permanently att)

Offrs		7
OR		229
MCs		7
Wheels	incl	40
Tlrs	plant	21

INDEP FIELD SQN

Sqn HQ
(4 and 60)
2 medium wheeled tractors
2 air compressors

Tp	Tp	Tp	Park Tp
(1 and 56)			(1 and 50)
1 light wheeled tractor			1 crane br
			1 grader
			1 welding tlr
			1 circular saw tlr
			1 water purification tlr
			1 field lighting set
			1 excavator (truck mounted)
			1 angledozer size II
			1 forklift truck
			1 air compressor

SUMMARY
(incl permanently att)

Offrs		8
OR		278
MCs		9
Wheels	incl	52
Tlrs	plant	31
Tracks		1

FIELD PARK SQN

Sqn HQ
(3 and 44)

Wksp Tp (1 and 32)	Stores Tp (1 and 24)	Plant Tp (1 and 32)
1 welding tlr	3 water purification tlrs	3 cranes br
1 circular saw tlr	1 forklift truck	2 excavators (truck mounted)
3 field lighting sets	1 crane br	2 graders
1 machinery lorry		2 angledozers size II (carried on tlrs)
		2 air compressors

SUMMARY (PE)
(incl permanently att)

Offrs		6
OR		132
MCs		3
Wheels	incl	31
Tlrs	plant	25
Tracks		2

ENGR GP HQ

A HQ Engr Gp consists of a Comd (Col), 5 offrs and 24 OR. A sig tp (2 and 29) is att. Vehs (incl R SIGS) total 2 MCs, 10 wheels and 6 tlrs.

ARMD ENGR SQN

Sqn HQ
(5 and 128)

- AVRE Tp (1 and 21), 4 AVREs
- Flail Tp (1 and 14), 4 flails
- Br Layer Tp (1 and 20), 6 br layers
- AVRE Tp (1 and 21), 4 AVREs
- Ark Tp (1 and 23), 4 Arks
- LAD

SUMMARY (incl permanently att)

Offrs	10
OR	227
MCs	3
Tracks	32
Wheels	35
Tlrs	27

CORPS ENGR REGT

Regt HQ
(9 and 58)

- Field Sqn (7 and 229)
- Field Sqn
- Field Sqn
- Sig Tp (6)
- LAD (16)

3 light wheeled tractors
2 medium wheeled tractors
2 air compressors

SUMMARY (incl permanently att)

Offrs		30
OR		767
MCs		27
Wheels	incl	139
Tlrs	plant	72

CORPS FIELD PARK SQN

Sqn HQ
(3 and 31)

- Wksp Tp (1 and 52)
  - 1 circular saw tlr
  - 1 generator
  - 1 welding tlr
  - 1 machinery lorry
- Stores Tp (2 and 50)
  - 3 mech minelayers
  - 3 forklift trucks
  - 4 water purification sets
  - 2 cranes br
- Plant Tp (2 and 90)
  - 4 air compressors
  - 1 concrete mixer
  - 2 cranes br
  - 6 excavators
  - 2 graders
  - 2 road rollers
  - 2 scrapers
  - 2 medium wheeled tractors
  - 6 angledozers

SUMMARY (incl permanently att)

Offrs		8
OR		223
MCs		9
Wheels	incl	59
Tlrs	plant	41
Tracks		10

Notes. 1. Tracked plant carried on tlrs.

2. An Engr C Veh Wksp (3 and 118) is normally grouped with the Corps Field Park Sqn.

FIELD SVY SQN

Sqn HQ
(2 and 38)

- Topographical Tp (1 and 38)
- Cartographical Tp (1 and 18)
- Reproduction Tp (2 and 56)

SUMMARY (incl permanently att)

Offrs	6
OR	150
MCs	2
Wheels	32
Tlrs	25

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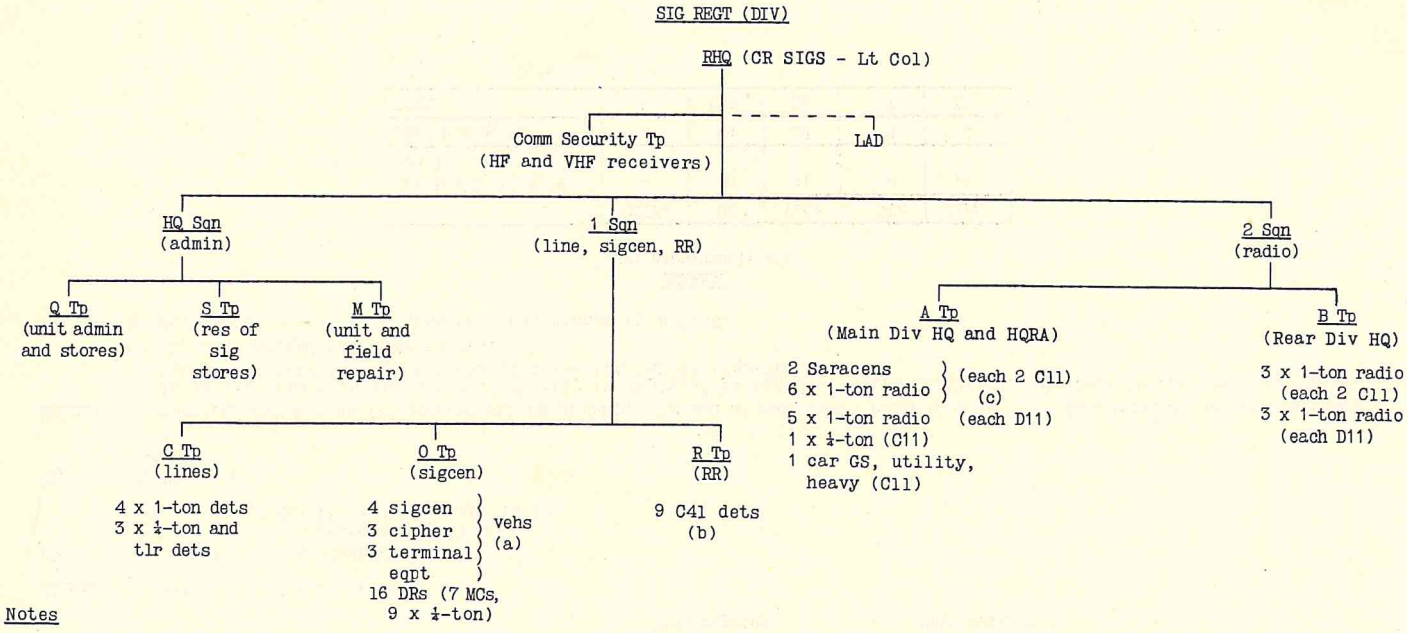

Notes

(a) A sigcen comprises one sigcen veh, one cipher and one terminal eqpt veh; the estb therefore provides for one sigcen at Main, one at Rear and one to step-up Main. The fourth sigcen veh is for an altn HQ.

(b) Normally each has one C41 working with one standby. One det is incl specifically as a relay station but other dets can be so org if required.

(c) It is probable that in future comd and arty nets will be VHF (C42), extra stations being provided in the estb to allow for rebroadcast stations to cover the required ranges. HF sets (C11) will be retained as a standby.

SUMMARY

	Offrs	OR	Vehs	MCs	Tlrs
Div sig regt (incl permanently att)	21	351	91	9	83
LAD	1	24	4	1	3
TOTAL	22	375	95	10	86

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SIG SQN (ARMD BDE GP)

Sqn HQ (Comd - Maj)

	W Tp (line, sigcen, RR)	A Tp (radio)	X Tp (armd regt)	Y Tp (armd regt)	Z Tp (armd regt)	E Tp (close sp regt)	V Tp (inf APC bn)
Line	2 x ¼-ton dets 1 x 1-ton det	2 Saracens 4 x 1-ton radio } (each 2 C11) (b)	each 1 C42/C13 (d) 1 x 1-ton radio (C42/C11) Unit repairs			1 Saracen 1 x 1-ton radio } (each C45/C11) Unit repairs	1 Saracen (C42/C11)
Sigcen	1 x 1-ton	1 x 1-ton (2 C11)					
RR	2 C41 dets (a)	1 x 1-ton (C11) 3 x ¼-ton (each C11) (c) Car GS, utility, heavy (C11)					
DRs	4 (2 MCs, 2 x ¼-ton)						

Notes. (a) Normally each has one C41 working and one standby; one can be made into a relay station with two working and one standby.

(b) It is probable that the C11 will shortly be replaced by the C42, extra stations being incl in the estb to allow sufficient rebroadcast stations to cover the ranges required.

(c) BM, DAA and QMG and BEME rovers.

(d) Mounted in comd veh of armd regt but manned by R SIGS.

SUMMARY
(incl permanently att)

	Offrs	OR	Vehs	MCs	Tlrs
Det tps X, Y, Z, E and V	-	60	11	4	19
Armd bde gp HQ	5	94	28	3	24
TOTAL	5	154	39	7	33

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SIG SQN (INF BDE GP)

Sqn HQ (Comd - Maj)

	J Tp (line, sigcen, RR)	A Tp (radio)	X Tp (armd regt)	E Tp (close sp regt)
Line	2 x ¼-ton dets 1 x 1-ton det	2 Saracens } (each 2 C11) 4 x 1-ton radio } (b)	1 C42/C13 (e) 1 x 1-ton radio (C42/C11) Unit repairs	1 Saracen } (each 1 x 1-ton radio } C45/C11) Unit repairs
Sigcen	1 x 1-ton	3 Saracens (each 2 C11) (c)		
RR	2 C41 dets (a)	1 x 1-ton radio (C11) 3 x ¼-ton (each C11) (d)		
DRs	4 (2 MCs, 2 x ¼-ton)	Car GS, utility, heavy (C11)		

Notes

(a) Normally each has one C41 working and one standby; one can be made into a relay station with two C41s working.

(b) It is probable that the C11 will shortly be replaced by the C42, extra stations being incl in the estb, to allow sufficient rebroadcast stations to cover the ranges required.

(c) Inf bn rear links. When inf bns are APC mounted these dets will be comparable in size to V Tp, Armd Bde Gp Sig Sqn.

(d) BM, DAA and QMG and BEME rovers.

(e) Mounted in comd veh of armd regt but manned by X Tp.

SUMMARY

(incl permanently att)

	Offrs	OR	Vehs	MCs	Tlrs
Det tps X and E and inf bn dets	-	40	8	1	6
Inf bde gp HQ	5	89	27	3	23
TOTAL	5	129	35	4	29

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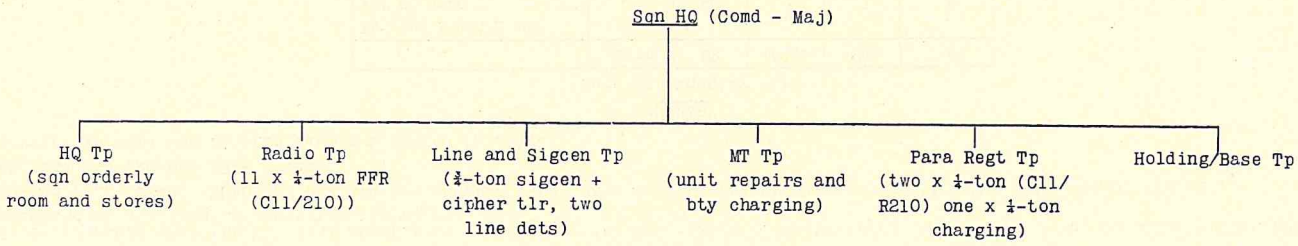
SIG SQN (PARA BDE GP)


Sqn HQ (Comd - Maj)
HQ Tp (sqn orderly room and stores)
Radio Tp (11 x ¼-ton FFR (C11/210))
Line and Sigcen Tp (¾-ton sigcen + cipher tlr, two line dets)
MT Tp (unit repairs and bty charging)
Para Regt Tp (two x ¼-ton (C11/R210) one x ¼-ton charging)
Holding/Base Tp

Note. For radio diagram see page 506.

SUMMARY
(incl permanently att)

	Offrs	OR	Vehs	MCs	Tlrs
Sqn HQ/HQ Tp	2	27	3	-	3
Radio Tp	1	58	11	-	11
Line and Sigcen Tp	1	19	4	-	4
MT Tp	1	27	3	-	3
Para Regt Tp	-	12	3	-	3
Holding/Base Tp	1	3	-	-	-
TOTAL	6	146	24	-	24

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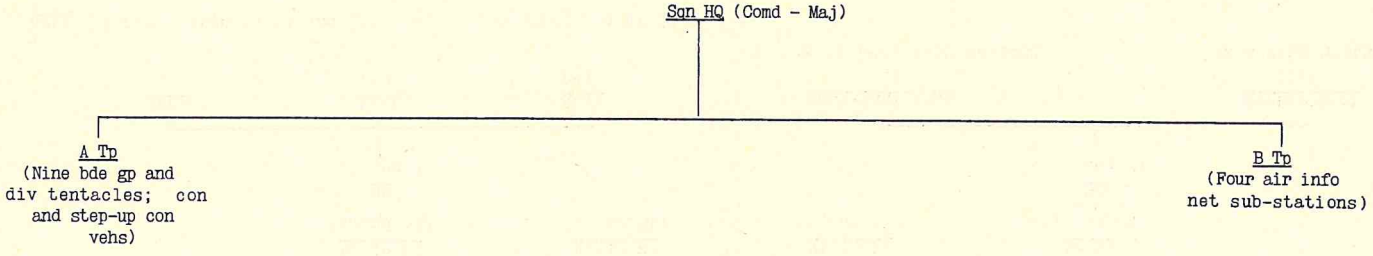
SIG SQN (AIR SP)



SUMMARY

	Offrs	OR	Vehs	MCs	Tlrs
Sqn HQ	2	19	5	-	4
A Tp	1	56	16	-	16
B Tp	1	29	7	-	7
TOTAL	4	104	28	-	27

Note. There is now no standard sqn of this type in existence. At present each air sp sqn/tp is "tailor-made" for a particular requirement.

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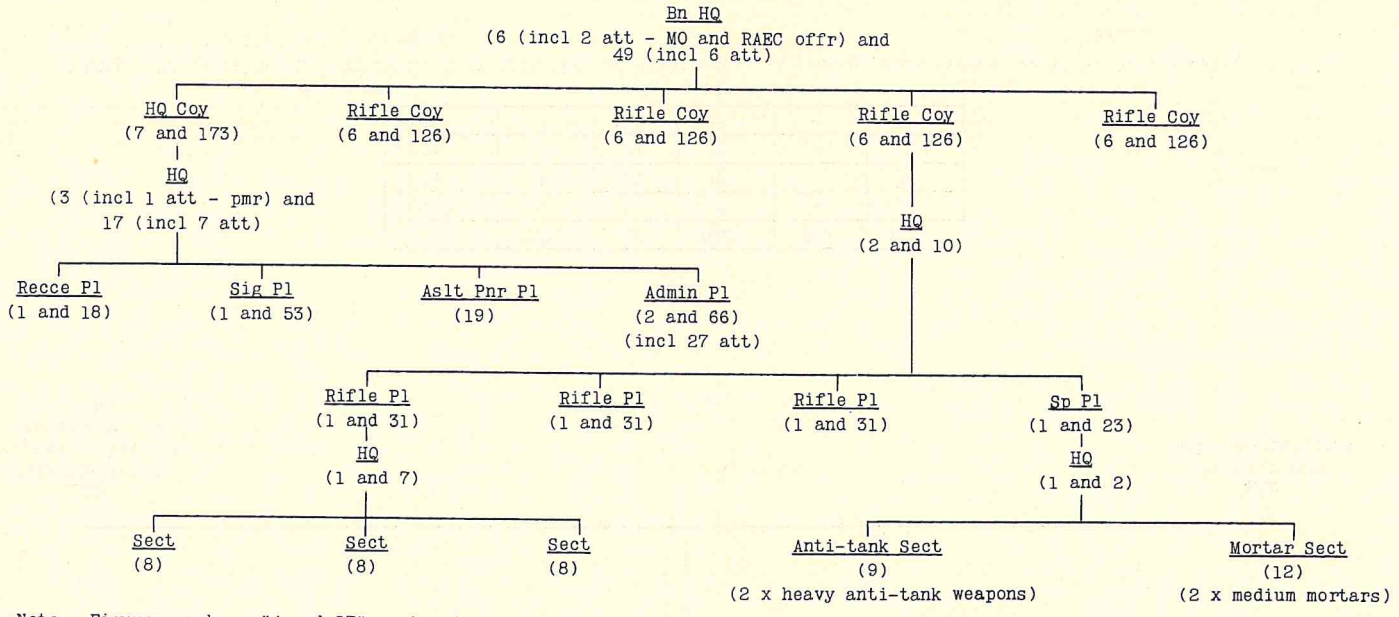
INF BN (763 Estb)



Note. Figures such as "4 and 27" = str, ie 4 Offrs and 27 OR.

SUMMARY

(incl permanently att)

Offrs	OR	¼-ton	1-ton (incl CO's Car)	3-ton	Tlrs	Heavy Anti-tank Weapons	Medium Mortars	GPMGs (SF)	GPMGs	Medium Anti-tank Weapons	Light Mortars
37 (incl 3 att)	726 (incl 40 att)	45	13	13	54	8 x 120-mm Mobat	8 x 81-mm	12 conversion kits	65	20 x Carl Gustav 84-mm recoilless gun	28 x 2-in

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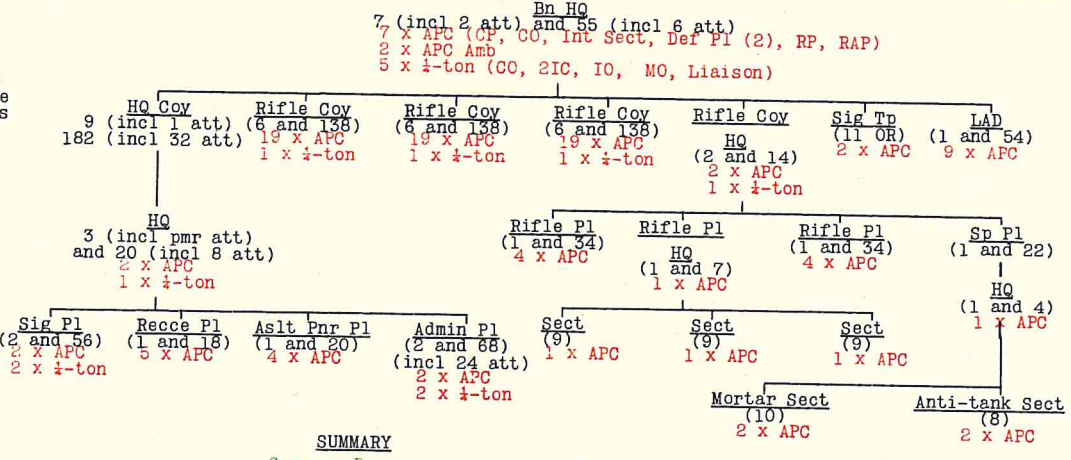
INF APC BN - (WE)

FOR STAFF COLLEGE USE ONLY

In Staff College ORBAT tracked APCs are used in armd bde gps, wheeled APCs are used in inf bde gps.

Notes

1. APCs may be Saracen (wheeled) or Trojan FV 432 (tracked).
2. The admin vehs required to sp the bn will vary with the type of APC (eg tracked APC carries more ammo but uses more POL - see 2nd line loading tables).
3. Figures such as 9 and 182 = str 9 offrs and 182 OR.
4. The estb is built on a brick system by coy gps. (Estb, less a coy gp, is similar to BAOR.)
5. The dvrs for extra vehs in a Saracen bn are found from rifle sects.



SUMMARY

	Inf	Att	Totals
Men	38 and 752	4 and 103	42 and 855
APC	100	11	111

Saracen Bn

Tlrs	¼-ton	1-ton	3-ton
8	6		2
12	5	2 (Water)	17
8	4		12
4	1		4
2			2
34	16	2	37

B Vehs

Sub-Unit	3-ton
Bn HQ	1
HQ Coy	12
Rifle Coys	4
LAD	4
Sig Tp	
TOTAL	21

Trojan Bn

1-ton	¼-ton	Tlrs
	6	7
2 (Water)	5	8
	4	4
	1	
2	16	19

Distr to Echelons

Saracen Bn

B	A2	A1	F
1		2 1	4 8
6	6 2	13 2	11
	4	4	8 76
		5 9	
	2	1	1
7	12 2	24 13	12 96

(B vehs black, APCs red/green)

Trojan Bn

Sub-Unit	F	A1	A2	B
Bn HQ	4 8	1 1		1
HQ Coy	11	10 2	4 2	5
Rifle Coys	4 76	4		
LAD		3 9	2	
Sig Tp	1	1		
TOTAL	8 96	19 13	6 2	6

6. Sp Weapons

a. 8 x 81-mm mortars (in tracked APC can be fired from veh).

b. 8 x Wombat (in tracked APC can be carried inside veh).

c. Each APC has one GPMG in addition to the normal inf bn allotment. (3 conversion kits for SF per coy.)

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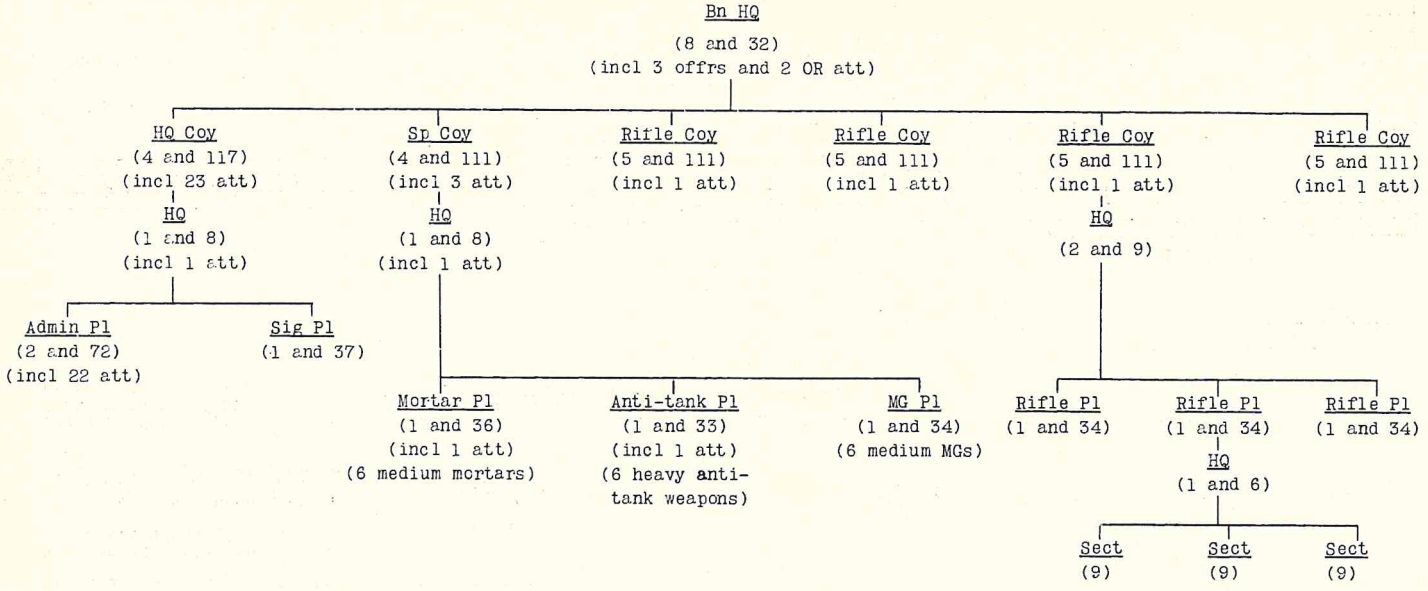
PARA BN



Note. Figures such as "4 and 27" = str ie 4 Offrs and 27 OR.

SUMMARY
(incl permanently att)

Offrs	OR	Wheels	Tlrs	Heavy Anti-tank Weapons	Medium Mortars	Medium MGs
36	704	42	41	6 x 106-mm anti-tank/	6 x 3-in	6*

*To be replaced by GPMG on same basis as inf bn.
/To be replaced by Wombat.

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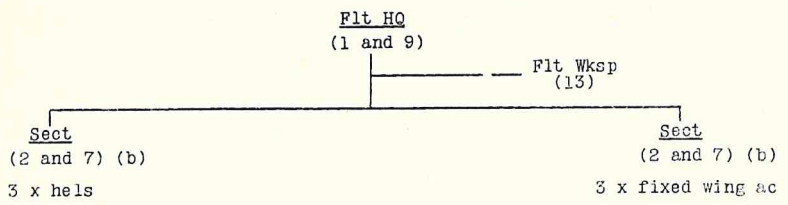
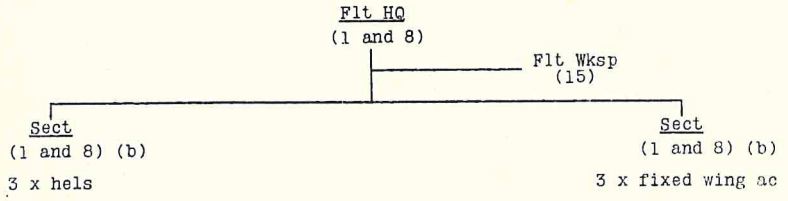
AAC UNITS

RECCE FLT (a)



LIAISON FLT (a)



Notes. (a) Recce flts are allotted on a scale of one per bde gp and one per corps. Liaison flts are allotted as required, normally one per corps, theatre or force HQ.

(b) Recce sects have two offr and one NCO pilots. Liaison sects have one offr and two NCO pilots.

(c) Indep flts have an increment of one offr and 13 OR and three vehs and two tlrs.

(d) Indep flt wksps have an increment of 11 OR and four vehs, four tlrs and one MC.

(e) Sqn HQ together with wksps and stores sects are allotted on a scale of one per div HQ.

(f) Wing HQ are allotted on a scale of one per corps/theatre.

(g) There may be minor variations in flt wksp str depending on the type of ac in the flt.

SUMMARY
(incl permanently att)

Unit	Offrs	OR	MCs	Vehs	Tlrs	Ac	Remarks
Recce flt	5	36	1	10	9	3 x hels 3 x fixed wing ac	
Liaison flt	3	39	1	11	9	3 x hels 3 x fixed wing ac	incl wksp and stores sect
Sqn HQ (comd three flts)	5	69	1	22	14		
Wing HQ	8	39	1	11	9		

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FOR STAFF COLLEGE PURPOSES ONLY

Serial	Formation	RASC Units	Task Veh	Org										
				Column HQ	MT Coy HQ	Tpt Pl	Comp Pl	REME Wksp	LAD	Supply Coy HQ	Supply Pl	Petroleum Pl	RP Pl	Med Pl (RAMC)
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(j)	(k)	(l)	(m)	(n)	(o)
1	Armd Bde Gp	Armd bde gp coy (basic second line tpt)	80(a)		1	4	1	1						
2	Inf Bde Gp	Inf bde gp coy (basic second line tpt)	80(a)		1	4	1	1						
3	Corps Tps (basic units)	Corps tps column RASC:-												
		HQ corps tps column		1										
		GT coy	80		1	4		1						
		GT coy (heavy)	80(b)		1	4		1						
		Tipper coy	80(c)		1	4		1						
		Motor amb coy	80(d)		1	4		1						
		Supply coy								1	3	1		1
		Corps HQ car coy (e)			1	2			1					
4	Corps Tps (supplementary units)	HQ tpt column(s) RASC (f)		1										
		GT coys (h)	80(g)		1	4		1						
		HQ supply coy (j)								1				
		RP pl (k)											1	

Notes. (a) 72 x 3-ton and 8 x 10-ton trucks.

(b) 10-ton trucks.

(c) 3-ton tippers.

(d) 60 amb cars and 20 x 3-ton trucks.

(e) Under CRASC corps tps column for tech and certain admin matters only.

(f) Can comd up to four GT coys.

(g) 60 x 3-ton and 20 x 10-ton trucks.

(h) Allocated on the basis of:-

(i) One GT coy per armd bde gp in the corps.

(ii) As required to meet the second line commitments of armd and arty units allotted as corps tps. For Staff College exercise purposes ONLY the following scale (in 3-ton vehs) will be used:-

two pls per armd regt
half pl per armd car regt
two pls per regt (SAGW)
one pl per regt (HJ/8 in)
half pl per regt (40/70/FCE7)
two pls per regt (155 mm OR 5.5 in)

(j) One for every four RP pls.

(k) One per inf and armd bde gp in the corps.

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RASC UNITS

SUMMARY

Unit	Offrs	OR	MCs	Wheels	Tlrs	Remarks
MT coy	12	349	40	112	18	incl REME wksp
Tpt pl	1	61	8	24	2	
Comp pl (A, B, C and D sects)	2	36	4	2	1	
HQ supply coy	2	8	1	2	-	
Supply pl	2	42	2	4	1	
Petroleum pl	5	59	4	7	1	
RP pl	2	25	-	5	1	
HQ tpt column	6	23	3	5	5	
HQ corps tps column	7	26	3	7	7	

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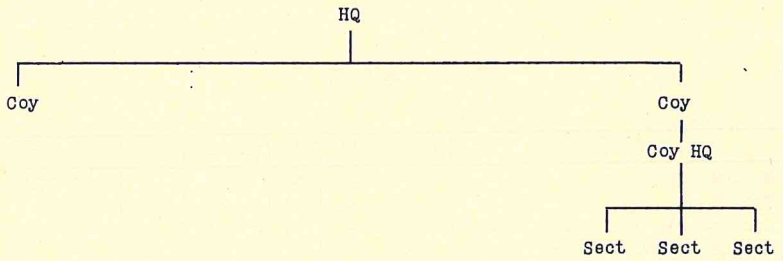
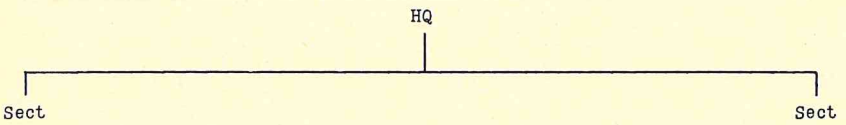
RAMC UNITS

FIELD AMB



FDS



SUMMARY OF RAMC AND RADC UNITS

Unit	Offrs	OR	MCs	Wheels	Tlrs	Remarks
Field amb	13	208	5	36	18	
FDS	7	109	3	14	7	
CCS	38	127	1	5	3	38 incl 22 QARANC
FST	2	8	-	2	1	
FTT	1	3	-	1	-	
Med pl	-	34	-	-	-	
Field hygiene sect	1	32	2	6	6	
Mob dental team	1	3	-	1	-	
Fwd med eqpt depot	1	14	-	3	2	

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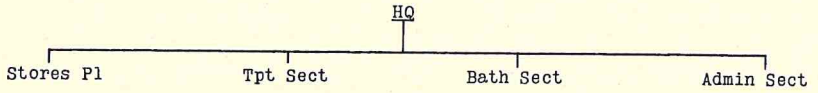
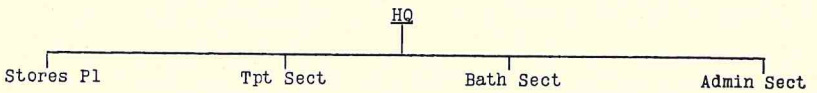
RAOC UNITS

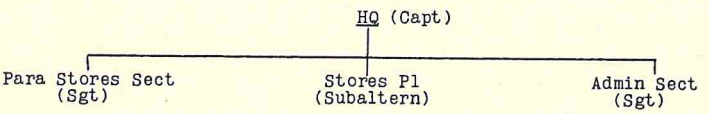
ARMD BDE GP OFP



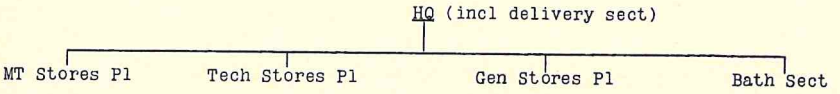
INF BDE GP OFP



PARA BDE GP OFP

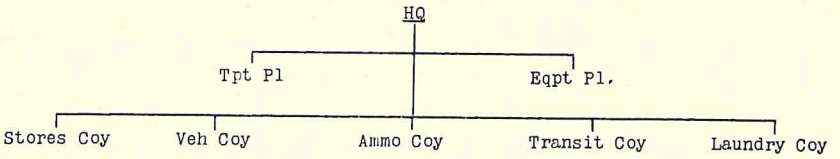


CORPS TPS OFP

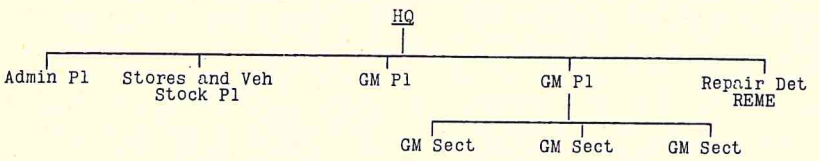


CORPS ORD MAINT PARK

FOR STAFF COLLEGE USE ONLY



GW COY RAOC



SUMMARY

Unit	Offrs	OR	MCs	Wheels	Tlrs
Armd bde gp OFP	3	75	2	27	25
Inf bde gp OFP	3	69	2	24	22
Para bde gp OFP	2	36	1	9	7
Corps tps OFP	6	116	4	37	8
Corps ord maint park	25	604	11	99	32
GW coy	3	77	-	35	10

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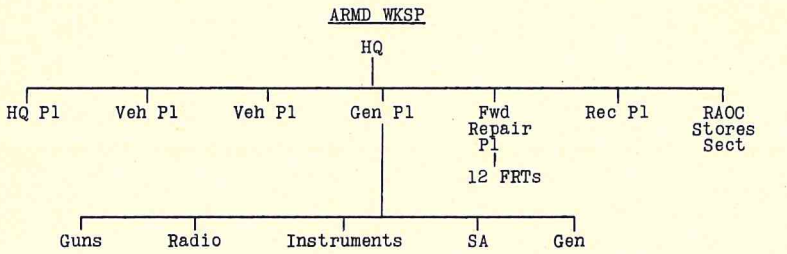
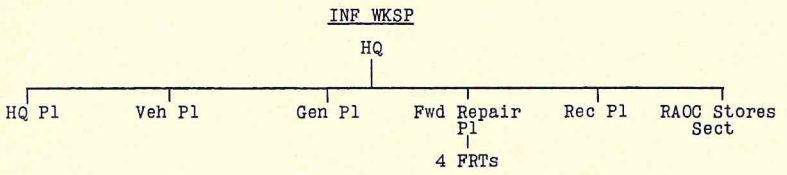
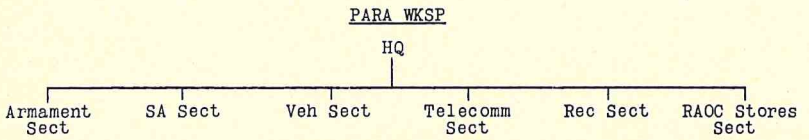
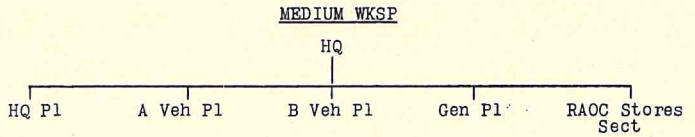
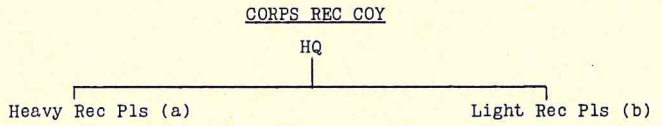
REME UNITS AND ASSOCIATED RAOC STORES SECTS











(a) one per armd bde gp
(b) one per three inf bde gps

SUMMARY

Unit	Offrs	OR	MCs	Wheels	Tracks	Tlrs	Remarks
Armd wksp	13	362	9	108	6	63	) Incl RAOC stores sect
Inf wksp	8	209	5	49	3	39	)
Para wksp	4	93	-	23	-	17	)
Medium wksp	7	261	2	33	1	28	Excl stores sect
HQ corps rec coy	2	25	1	5		5	
Heavy rec pl	2	77	5	23	2	21	
Light rec pl	2	63	4	18	2	18	

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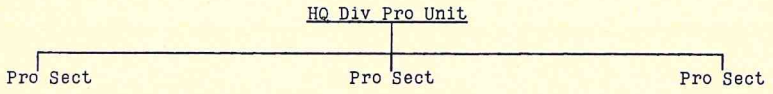
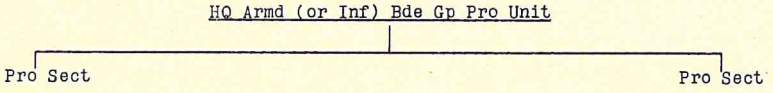
RMP UNITS

DIV PRO UNIT

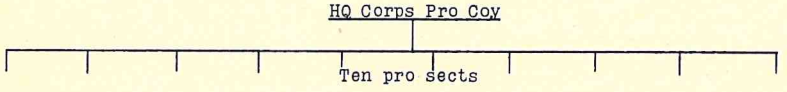


BDE GP PRO UNIT

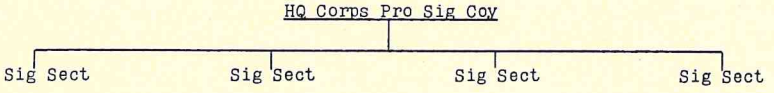
(Armd and Inf Bde Gps)



CORPS PRO COY



CORPS PRO SIG COY



SUMMARY

Unit	Offrs	OR	MCs	Wheels	Tlrs
Pro sect		17	5	4	4
Div pro unit	1	58	16	15	15
Bde gp pro unit (armd or inf)	1	40	11	10	9
Corps pro coy	5	192	51	47	45
Corps pro sig coy	6	111	9	38	34

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RAPC UNITS

FIELD CASH OFFICE

Corps tps unit. One per three bde gps. One for corps tps.

FWD BASE PAY OFFICE

One per corps.

SUMMARY

Unit	Offrs	OR	Wheels
Field cash office	1	2	1
Fwd base pay office	2	5	1

COURIER AND POSTAL UNITS

One per armd and inf bde gp. (Type G)

One per div for div tps. (Type B)

SUMMARY

Unit	Offrs	OR	Wheels	Tlrs
Courier and postal unit				
Type G	1	9	3	1
Type B	1	12	3	-

RPC UNITS

COY RPC

HQ

Sect (up to 12 sects according to task)

SUMMARY

Unit	Offrs	OR	MCs	Wheels	Tlrs
Coy HQ	6	28	1	3	2
Sect	-	26	-	-	-

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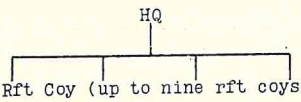
CORPS RFT UNIT



one coy per inf bde gp and three for corps tps

SUMMARY

Unit	Offrs	OR	MCs	Wheels	Tlrs
HQ	4	16	2	2	1
Coy	8	70	2	4	2

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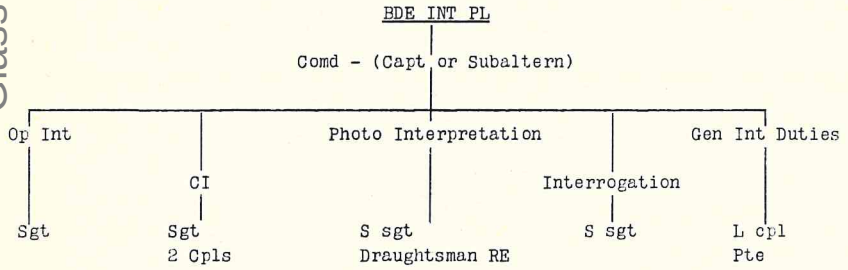
FIELD FORCE INT UNITS



Tpt. 2 x ¼-ton vehs + ½-ton tlrs.

Notes. 1. Bde int pls in BAOR do not have the photo interpretation element.

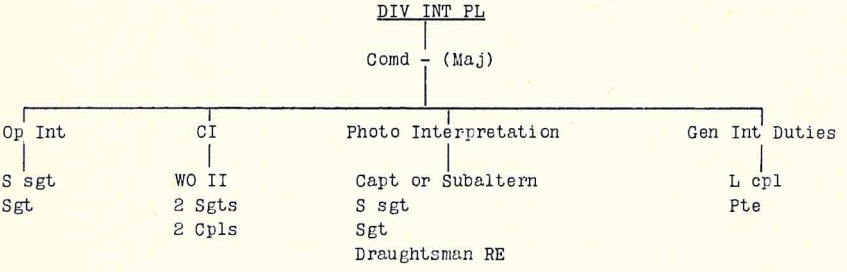
2. Pls outside BAOR and FARELF (Malaya) have only one cpl in the CI element.

3. Gen int duties element is used to sp any of the other elements.

4. All pers are Int Corps unless shown otherwise.

5. No firm sub-allotment of tpt within the pl. No dvrs are allotted as all ranks are trained to drive.

6. All bde int pls are air ptbl.



Tpt. 4 x ¼-ton vehs + ½-ton tlrs.

Notes. 1. Gen int duties element is used to sp any of the other elements but normally either the 1 cpl or pte will be allotted to the CI element.

2. In pls in BAOR one member of the CI element will also be an interpreter in German.

3. All pers are Int Corps unless shown otherwise.

4. No firm sub-allotment of tpt within the pl. No dvrs are allotted as all ranks are trained to drive.

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ARMD BDE GP

TPT TABLES

Serial	Unit	F Echelon		A Echelon		B Echelon		Total Vehs	Remarks
		Wheels	Tracks	Wheels	Tracks	Wheels	Tracks		
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(j)	(k)
1	HQ armd bde gp	10	-	3	-	2	-	15	
2	Sig sqn (armd bde) less X, Y, Z, E and V Tps	24	-	3	-	1	-	28	
3	Bde gp LAD	-	-	6	-	-	-	6	
4	Bde gp int pl	2	-	-	-	-	-	2	
5	TOTAL, Serials 1-4	36	-	12	-	3	-	51	
6	-								
7	Armd sqn	3	16	9 (a)	1 (a)	2	-	31	(a) Incl 6 wheels and 1 track in A1 Echelon.
8	-								
9	-								
10	TOTAL, armd regt incl sig tp and LAD	24	52	61 (b)	4 (b)	16	6 (c)	163	(b) Incl 31 wheels and 4 tracks in A1 Echelon.
11	-								(c) Res tanks.
12	Close sp bty (155 mm SP)	16	10	5	-	1	-	32	
13	-								
14	-								
15	TOTAL, close sp regt (155 mm SP) incl sig tp and LAD	72	30	17	-	8	1	128	

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ARMD BDE GP

STAFF TABLES

(Corrected to 1 Aug 62)

Serial	Unit	Estb	Last Amdt	Offrs	OR	MCs	Wheels	Tracks	Guns	Tlrs	Total Vehs (excl MCs and Tlrs)	Remarks
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(j)	(k)	(l)	(m)	(n)
1	HQ armd bde gp (a)	II/578/1 (W)	2	18	78	4	15	-	-	13	15	(a) Excl 5 chaplains, 5 OR, 5 vehs, 5 tlrs att to units. Excl BOWO. Incl DADST and DADOS.
2	Sig sqn (armd bde gp) less X, Y, Z, E and V Tps (b)	II/759/1 (P)	1	5	94	3	28	-	-	24	28	
3	Bde gp LAD	II/1158/1 (W)	-	1	28	1	6	-	-	4	6	(b) Det to serve inf APC bn assumed to be V Tp.
4	Bde gp int pl	II/1155/2 (P and W)	-	1	9	-	2	-	-	2	2	
5	TOTAL, Serials 1-4			25	209	8	51	-	-	43	51	(c) Incl 1 chaplain, 1 OR, 1 veh, 1 tlr att from bde gp HQ.
6	Armd regt (c)	II/601/7 (W)	-	42	485	3	86	58 (d)	-	19	144 (d)	(d) Incl 6 res tanks.
7	Armd sqn (e)	II/601/7 (W)	-	8	124	-	14	17	-	3	31	(e) Incl sect att from LAD (19 OR, 2 wheels, 1 track) and 1 radio tech from sig tp.
8	X, Y or Z Tp, sig sqn (f)	II/759/1 (P)	1	-	12	1	2	-	-	2	2	
9	Armd regt LAD (g)	II/1025/4 (W)	-	2	99	1	13	4	-	5	17	(f) Incl 5 OR carried in armd regt tpt.
10	TOTAL, armd regt, incl sig tp and LAD			44	596	5	101	62 (d)	-	26	163 (d)	(g) Incl armd sqn sects. Incl Conqueror increment.
11	Close sp regt (155 mm SP) (h)	III/616/3 (W)	3	37	574	11	85	30	18 (j)	52	115	
12	Close sp bty (155 mm SP) (k)	III/616/3 (W)	3	8	172	2	22	10	6 (j)	12	32	(h) Incl 1 chaplain, 1 OR, 1 veh, 1 tlr att from bde gp HQ. Incl 4 OR carried in sig tp tpt.
13	E Tp, sig sqn (l)	II/759/1 (P)	1	-	13	-	3	-	-	1	3	
14	Close sp regt (155 mm SP) LAD (m)	III/623/2 (W)	-	1	67	1	9	1	-	4	10	(j) 155-mm how SP.
15	TOTAL, close sp regt (155 mm SP) incl sig tp and LAD			38	654	12	97	31	18 (j)	57	128	(k) Incl bty sect from LAD (13 OR, 1 veh) and 1 OR from sig tp.

(l) Incl 3 OR carried in regt tpt.

(m) Incl bty sects.

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ARMD BDE GP (CONTINUED)

TPT TABLES

Serial	Unit	F Echelon		A Echelon		B Echelon		Total Vehs	Remarks
		Wheels	Tracks	Wheels	Tracks	Wheels	Tracks		
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(j)	(k)
16	Field sqn	25	-	15	-	-	-	40	
17	Tp field sqn	7	-	2	-	-	-	9	
18	Inf APC bn	8	96	25	15	6	-	150	
19	Rifle coy	1	19	1	2	-	-	23	
20	HQ coy	-	11	14	4	5	-	34	

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ARMD BDE GP (CONTINUED)

STAFF TABLES

(Corrected to 1 Aug 62)

Serial	Unit	Estb	Last Amdt	Offrs	OR	MCs	Wheels	Tracks	Guns	Tlrs	Total Vehs (excl MCs and Tlrs)	Remarks
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(j)	(k)	(l)	(m)	(n)
16	Field sqn	II/1159/1 (W)	2	7	229	7	40	-	-	21	40	(n) Incl 1 chaplain, 1 dvr, 1 veh, 1 tlr att from bde gp HQ.
17	Tp field sqn	II/1159/1 (W)	2	1	56	1	9	-	-	4	9	
18	Inf APC bn (n)	Special	-	41	790	-	34	100	8 (o)	19	134	(o) 120-mm Wombat.
19	Rifle coy (p)	Special	-	6	154	-	2	21	2 (o)	1	23	(p) Incl sect att from LAD, 7 OR, 2 APCs.
20	HQ coy (q)	Special	-	9	142	-	19	15	-	8	34	Incl 4 OR from sig pl and 5 OR from bn HQ and HQ coy.
21	Tp, sig sqn (r)	Special	-	-	11	1	-	2	-	-	2	
22	Inf APC bn LAD	Special	-	1	54	-	5	9	-	-	14	(q) Excl 40 OR with bn HQ and coys.
23	TOTAL, inf APC bn incl sig tp and LAD			42	855	1	39	111	8 (o)	19	150	(r) Similar to V Tp sig sqn.
24	Recce flt (s)	III/645/3 (P and W)	-	5	29	1	9	-	-	8	9	(s) Incl 6 ac (3 hels, 3 fixed wing). Incl 6 OR att from light ac flt wksp.
25	Light ac flt wksp (t)	III/640/3 (P and W)	-	-	7	-	1	-	-	1	1	
26	TOTAL, recce flt incl wksp			5	36	1	10	-	-	9	10	(t) Excl 6 OR carried in tpt of recce flt.
27	HQ MT Coy RASC (u)	II/860/1 (W)	1	5	31	2	5	-	-	4	5	(u) Incl 1 capt and 1 OR for four pls.
28	Tpt pl (v)	II/859/1 (W)	3	1	61	8	24	-	-	2	24	
29	Comp pl (A, B, C and D sects)	II/855/4 (W)	2	2	36	4	2	-	-	1	2	(v) One pl incls 8 x 10-ton vehs, remainder 3-ton.
30	MT coy wksp (four pls) (w)	II/1033/1 (W)	-	1	38	2	9	-	-	5	9	
31	TOTAL, coy RASC (armd bde gp) (HQ, four pls and one comp pl) and wksp			12	349	40	112	-	-	18	112	(w) Incl increment of 1 OR for 10-ton vehs in one pl.

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ARMD BDE GP (CONTINUED)

STAFF TABLES

(Corrected to 1 Aug 62)

Serial	Unit	Estb	Last Amdt	Offrs	OR	MCs	Wheels	Tracks	Guns	Tlrs	Total Vehs (excl MCs and Tlrs)	Remarks
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(j)	(k)	(l)	(m)	(n)
32	HQ field amb	II/905/5 (W)	-	5	54	3	10	-	-	4	10	
33	Coy field amb	II/905/5 (W)	-	4	77	1	13	-	-	7	13	
34	Sect field amb	II/905/5 (W)	-	1	23	-	4	-	-	2	4	
35	TOTAL, field amb (HQ and two coys)			13	208	5	36	-	-	18	36	
36	Armd bde gp OFP	II/965/1 (W)	1	3	75	2	27	-	-	25	27	
37	Armd wksp	Special	-	12	334	9	86	6 (x)	-	59	90	(x) Excl 2 tracks carried on tlrs and incl in total tlrs.
38	Stores sect	Special	-	1	28	-	22	-	-	4	22	
39	TOTAL, armd wksp and stores sect			13	362	9	108	6 (x)	-	63	112	
40	HQ armd bde gp pro unit	II/1055/3 (P and W)	1	1	6	1	2	-	-	1	2	
41	Pro sect	II/1054/3	1	-	17	5	4	-	-	4	4	
42	TOTAL, armd bde gp pro unit (HQ and two sects)			1	40	11	10	-	-	9	10	
43	Bde gp courier and postal unit (Type G)	II/1153/1 (LE)	-	1	9	-	3	-	-	1	3	
44	TOTAL, armd bde gp			292	4814	111	836	334	26	361	1168	

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INF BDE GP

TPT TABLES

Serial	Unit	F Echelon		A Echelon		B Echelon		Total Vehs	Remarks
		Wheels	Tracks	Wheels	Tracks	Wheels	Tracks		
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(j)	(k)
1	HQ inf bde gp	10	–	3	–	2	–	15	
2	Sig sqn (inf bde gp) less X and E Tps	21	–	4	–	2	–	27	
3	Bde gp LAD	–	–	6	–	–	–	6	
4	Bde gp int pl	2	–	–	–	–	–	2	
5	TOTAL, Serials 1–4	33	–	13	–	4	–	50	
6	–								
7	Armd sqn	2	16	10 (a)	1 (a)	2	–	31	(a) Incl 6 wheels and 1 track in A1 Echelon.
8	–								
9	–								
10	TOTAL, armd regt incl sig tp and LAD	24	52	61 (b)	4 (b)	16	6 (c)	163	(b) Incl 31 wheels and 4 tracks in A1 Echelon.
11	–								(c) Res tanks.
12	Close sp bty (25 pr)	27	–	4	–	1	–	32	
13	Close sp bty (5.5 in)	25	–	4	–	1	–	30	
14	–								
15	–								
16	TOTAL, close sp regt (25 pr/5.5 in) incl sig tp and LAD	87	–	28	–	9	–	124	
17	Field sqn	25	–	15	–	–	–	40	
18	Tp field sqn	7	–	2	–	–	–	9	

Glasswall Protected

INF BDE GP

STAFF TABLES

(Corrected to 1 Aug 62)

Serial	Unit	Estb	Last Amdt	Offrs	OR	MCs	Wheels	Tracks	Guns	Tlrs	Total Vehs (excl MCs and Tlrs)	Remarks
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(j)	(k)	(l)	(m)	(n)
1	HQ inf bde gp (a)	II/578/1 (W)	2	18	78	4	15	-	-	13	15	(a) Excl 5 chaplains, 5 OR, 5 vehs, 5 tlrs att to units.
2	Sig sqn (inf bde gp) less X and E Tps (b)	II/760/1 (P)	2	5	89	3	27	-	-	23	27	(b) Excl sig dets for inf bns rear link (15 OR, 3 vehs, 3 tlrs).
3	Bde gp LAD	II/1158/1 (W)	-	1	28	1	6	-	-	4	6	(c) Incl 1 chaplain, 1 OR, 1 veh, 1 tlr, att from bde gp HQ. Incl 2 OR carried in X Tp tpt.
4	Bde gp int pl	II/1155/2 (P and W)	-	1	9	-	2	-	-	2	2	(d) Incl 6 res tanks.
5	TOTAL, Serials 1-4			25	204	8	50	-	-	42	50	(e) Incl sect att from LAD (19 OR, 2 wheels, 1 track) and 1 radio tech from sig tp.
6	Armd regt (c)	II/601/7 (W)	-	42	485	3	86	58 (d)	-	19	144 (d)	(f) Incl 5 OR carried in armd regt tpt.
7	Armd sqn (e)	II/601/7 (W)	-	8	124	-	14	17	-	3	31	(g) Incl armd sqn sects. Incl Conqueror increment.
8	X Tp, sig sqn (f)	II/760/1 (P)	2	-	12	1	2	-	-	2	2	(h) Incl 1 chaplain, 1 OR, 1 veh, 1 tlr att from bde gp HQ. Incl 1 offr, 4 OR carried in sig tp tpt.
9	Armd regt LAD (g)	II/1025/4 (W)	-	2	99	1	13	4	-	5	17	(j) 12 x 25-pr, 6 x 5.5-in (towed).
10	TOTAL, armd regt incl sig tp and LAD			44	596	5	101	62 (d)	-	26	163 (d)	(k) Incl 1 OR from sig tp and 6 OR from LAD.
11	Close sp regt (25 pr/5.5 in) (h)	II/1162/1 (W) / III/615/3 (W)	2 / 3	36	538	11	116	-	18 (j)	60	116	(l) Incl 1 OR from sig tp and 7 OR from LAD.
12	Close sp bty (25 pr) (k)	II/1162/1 (W)	2	8	144	2	32	-	6 (j)	16	32	(m) Incl 3 OR carried in regt tpt.
13	Close sp bty (5.5 in) (l)	III/615/3 (W)	3	8	177	2	30	-	6	12	30	(n) Incl bty sects and increment of 3 OR for 5.5-in bty.
14	E Tp, sig sqn (m)	II/760/1 (P)	2	-	13	-	3	-	-	1	3	
15	Close sp regt (25 pr/5.5 in) LAD (n)	II/1021/3 (W)	1	1	38	1	5	-	-	4	5	
16	TOTAL, close sp regt (25 pr/5.5 in) incl sig tp and LAD			37	589	12	124	-	18 (j)	65	124	
17	Field sqn	II/1159/1 (W)	2	7	229	7	40	-	-	21	40	
18	Tp, field sqn	II/1159/1 (W)	2	1	56	1	9	-	-	4	9	

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INF BDE GP (CONTINUED)

TPT TABLES

Serial	Unit	F Echelon		A Echelon		B Echelon		Total Vehs	Remarks
		Wheels	Tracks	Wheels	Tracks	Wheels	Tracks		
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(j)	(k)
19	Inf bn	53	-	14	-	6	-	73	
20	Rifle coy	9	-	1	-	-	-	10	
21	HQ coy	8	-	9	-	6	-	23	

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INF BDE GP (CONTINUED)

STAFF TABLES

(Corrected to 1 Aug 62)

Serial	Unit	Estb	Last Amdt	Offrs	OR	MCs	Wheels	Tracks	Guns	Tlrs	Total Vehs (excl MCs and Tlrs)	Remarks
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(j)	(k)	(l)	(m)	(n)
19	Inf bn (o)	II/804/7 (P)	1	38	732	3	73	-	8 (p)	56	73	(o) Incl 1 chaplain, 1 OR, 1 veh, 1 tlr att from bde gp HQ. Incl sig det for rear link (5 OR, 1 veh, 1 tlr) from A Tp bde gp sig sqn.
20	Rifle coy (q)	II/804/7 (P)	1	6	135	-	10	-	2 (p)	7	10	
21	HQ coy (r)	II/804/7 (P)	1	7	138	-	23	-	-	19	23	
22	Recce flt (s)	III/645/3 (P and W)	-	5	29	1	9	-	-	8	9	(p) 120-mm Mobat.
23	Light ac flt wksp (t)	III/640/3 (P and W)	-	-	7	-	1	-	-	1	1	
24	TOTAL, recce flt incl wksp			5	36	1	10	-	-	9	10	(q) Incl 4 OR from sig pl and 5 OR from bn HQ and HQ coy.
25	HQ MT coy RASC (u)	II/860/1 (W)	1	5	31	2	5	-	-	4	5	(r) Incl 5 OR, 1 veh, 1 tlr att from A Tp bde gp sig sqn. Excl 40 OR with bn HQ and rifle coys.
26	Tpt pl (v)	II/859/1 (W)	3	1	61	8	24	-	-	2	24	
27	Comp pl (A, B, C and D sects)	II/855/4 (W)	2	2	36	4	2	-	-	1	2	(s) Incl 6 ac (3 hels, 3 fixed wing). Incl 6 OR att from light ac flt wksp.
28	MT coy wksp (four pls) (w)	II/1033/1 (W)	-	1	38	2	9	-	-	5	9	
29	TOTAL, coy RASC (inf bde gp) (HQ four pls and one comp pl) and wksp			12	349	40	112	-	-	18	112	(t) Excl 6 OR carried in tpt of recce flt.
30	HQ field amb	II/905/5 (W)	-	5	54	3	10	-	-	4	10	(u) Incl 1 capt and 1 OR for four pls.
31	Coy field amb	II/905/5 (W)	-	4	77	1	13	-	-	7	13	(v) One pl incls 8 x 10-ton vehs, remainder 3-ton.
32	Sect field amb	II/905/5 (W)	-	1	23	-	4	-	-	2	4	
33	TOTAL, field amb (HQ and two coys)			13	208	5	36	-	-	18	36	(w) Incl increment of 1 OR for 10-ton vehs in one pl.
34	Inf bde gp OFP	II/964/1 (W)	1	3	69	2	24	-	-	22	24	

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INF BDE GP (CONTINUED)

STAFF TABLES

(Corrected to 1 Aug 62)

Serial	Unit	Estb	Last Amdt	Offrs	OR	MCs	Wheels	Tracks	Guns	Tlrs	Total Vehs (excl MCs and Tlrs)	Remarks
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(j)	(k)	(l)	(m)	(n)
35	Inf wksp	II/1032/2 (W)	1	7	196	5	40	3	-	32	42 (x)	(x) Excl 1 track carried on tlr and incl in tlr total.
36	Stores sect	II/962/2 (W)	1	1	13	-	9	-	-	7	9	
37	TOTAL, inf wksp and stores sect			8	209	5	49	3	-	39	51 (x)	
38	HQ inf bde gp pro unit	II/1055/3 (P and W)	1	1	6	1	2	-	-	1	2	
39	Pro sect	II/1054/3	1	-	17	5	4	-	-	4	4	
40	TOTAL, inf bde gp pro unit (HQ and two sects)			1	40	11	10	-	-	9	10	
41	Bde gp courier and postal unit (Type G)	II/1153/1 (LE)	-	1	9	-	3	-	-	1	3	
42	TOTAL, inf bde gp			270	4734	105	778	65 (y)	42	438	842 (y)	(y) Incl 1 track carried on tlr and incl in tlr total.

Glasswall Protected

INF BDE GP (CONTINUED)

STAFF TABLE SHOWING INF BDE GP - ASLT ECHELON TAC AIRLIFT

TABLE A

FOR STAFF COLLEGE USE ONLY

(Figures based on present strs and holdings of Strategic Res units and should not be compared with staff tables on pages 206-211)

Serial	Unit	Pers	MCs	Vehs				Tlrs			Guns	Ac	C Vehs		Freight Short Tons	Remarks
				¼-ton	¾-ton	1-ton Misc	Cars Scout	½-ton Cargo	½-ton Misc	3-ton Misc	Towed Misc	Light Misc	Trac-tors Misc	Plant Misc		
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
1	HQ inf bde gp	88		4				4							7	(a) 60 rpg carried in vehs.
2	LAD		1													(b) Incl 1 x 6 KW charging from sig sqn.
3	Close sp regt	235		23	53(a)	1		57(b)	2		18(c)				50(a)	(c) 18 x 105-mm pack hows.
4	LAD			3(d)				3								(d) FFR/winch/Ashton Young generator.
5	Indep field sqn	229		18(e)				16(f)	2(g)					4(h)	15	(e) 11 FFR.
6	Sig sqn	96	3	26				25	1(j)	2			1(k)		7	(f) One carries water purification set.
7	Inf bn	710	4	45(l)				37			8				40	(g) 1 welding, 1 circular saw.
8	Inf bn	710	4	45(l)				37			8				40	(h) 1 grader BK 10, 3 tractors earth moving light.
9	Inf bn	710	4	45(l)				37			8				40	(j) Charging 6 KW.
10	MT coy	42	1	3				3		12			6(k)		4	(k) Fergusson.
11	Wksp															(l) 30 FFR.
12	Field amb	50	2	11				11							6	(m) 1 FFR, 1 with winch, 2 Ashton Young generators, 1 Lincoln welder, 1 cargo.
13	OFP	8		4				4							7	(n) 1 machinery, 1 telecomms repair.
14	Inf wksp type A	38		6(m)				4	2(n)						10	(o) All FFR.
15	Stores sect			2				2								(p) 3 hels, 3 fixed wing ac.
16	Pro unit	19	4	3				3							2	(q) Ashton Young generator.
17	Int pl	10		2				2							2	(r) 4 sigs, 15 RAF.
18	Recce flt	45		5(o)				5				6(p)			4	(s) 4 RAF, 1 air sp sigs, all FFR.
19	Wksp			1(q)				1								(t) Incl R Sigs and REME.
20	Courier and postal unit	4		1				1							1	(u) Incl 4 FFR, 1 with winch.
21	Bde ASOC	19 (r)		5(s)				5							3	(v) Water 100 gallons.
22	TOTAL, Serials 1-21	3013	23	252	53	1		257	7	14	42	6	7	4	238	(w) Incl 4 Hornets.
23	Airptbl sqn (t)	72		10(u)			22	9	1(v)						20	
24	Airptbl GW tp	22		2		5(w)		3							10	
25	TOTAL, Serials 23-24	94		12		5	22	12	1						30	
26	TOTAL, inf bde gp aslt echelon tac airlift	3107	23	264	53	6	22	269	8	14	42	6	7	4	268	

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STAFF TABLE SHOWING INF BDE GP - FOLLOW UP ECHELON

TABLE B

Serial	Unit	Pers	MCs	Vehs								Tlrs						C Vehs		Freight Short Tons
				¼-ton	¾-ton	1-ton Cargo	1-ton Misc	3-ton Cargo	3-ton Misc	10-ton Cargo	Cars Scout	½-ton Cargo	½-ton Misc	1-ton Cargo	1-ton Misc	2-ton Misc	3-ton Misc	Tractors Misc	Plant Misc	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)	(t)	(u)	(v)
1	HQ inf bde gp	20		2	1		1(a)	5				3		5						
2	LAD			1(b)				2(c)	1(d)			1		1	1(e)			1(f)		6
3	Close sp regt incl LAD	236	5	12	11			17(h)				14		13	5(a) (e)			1(f)		50
4	Indep field sqn	31	4		1(b)			3	12(j)	3(k)	2	1	4(a)	10	3(l)	1(m)			3(n)	50
5	Sig sqn	20		5			4(o)	4	2(p)			5	4(q)	3	1(r)					15
6	Inf bn (three)	53			1			10	1(d)			2		7	2(a)					20
7	MT coy incl wksp	66	12	2				36	1(d)			2	1(m)		4(a) (e)			1(f)		15
8	Field amb	20						5	2(s)					4	1(a)					15
9	OFP	56	2	2				25(t)	2(u)	1		2			3(v)					10
10	Wksp incl stores sect	125		4			3(w)	26(x)	8(y)	2	3(dd)	4	1(z)	5	3(a)	1(m)	2(aa)	6(bb)	4(cc)	70
11	Pro unit	13			2							2								3
12	Recce flt and wksp	7						3	1(d)					2	1(a)					12
13	Courier and postal unit	8						1												2
14	TOTAL, Serials 1-13	761	23	28	18		8	157	32	6	5	40	10	64	27	2	2	9	7	308
15	Airptbl sqn (ee)	16						2	1(d)					1	1(a)					12
16	Airptbl GW tp	6				3														1
17	FST and FTT	2		1				1				1								
18	TOTAL, Serials 15-17	24		1		3		3	1			1		1	1					13
19	TOTAL, inf bde gp follow up echelon	785	23	29	18	3	8	160	33	6	5	41	10	65	28	2	2	9	7	321

Remarks

(a) Water.
(b) FFR.
(c) Fitted with detachable bins.
(d) With winch.
(e) 1 power supply electrical hand tools.
(f) Light rec.
(h) 1 fitted with detachable bins.
(j) 9 with winch, 3 tipping with winch.
(k) 1 cargo, 2 tipping.
(l) 2 compressor, 1 x 10 KVA.
(m) Servicing.
(n) 2 medium earth moving, 1 crane 7-ton.
(o) 1 radio repair, 1 sigcen light, 2 radio.
(p) Charging, 1 for close sp regt.
(q) 3 generators, 2 x 3½ KVA, 1 charging 6 KW.
(r) Cipher office light.
(s) Amb.
(t) 8 fitted with detachable bins, 1 crane.
(u) Office.
(v) 1 water, 1 generator 4 KW, 1 bathing plant.
(w) 2 FFR, 1 welding.
(x) 15 fitted with detachable bins, 1 crane.
(y) 1 armourer, 1 MT repair, 1 office, 1 instrument repair, 1 telecomms repair, 1 electrical repair, 1 power generator and charging, 1 office.
(z) Generator set 6 KVA.
(aa) 1 x 20-ton RE plant, 1 x 60-ton tank tptr.
(bb) 2 light rec, 3 heavy rec, 1 semi-tlr tank tptr.
(cc) 1 crane 6-ton, 1 tractor crawler with winch and angledozer, 2 tanks ARV medium.
(dd) APCs.
(ee) Incl REME.

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INF BDE GP (CONTINUED)

FOR STAFF COLLEGE USE ONLY

STAFF TABLE SHOWING INF BDE GP - AIRHEAD

TABLE C

Serial	Unit	Pers	MCs	Vehs		Tlrs			C Vehs		Freight Short Tons	Remarks
				¼-ton	3-ton Misc	½-ton Cargo	1-ton Misc	3-ton Misc	Tractor Misc	Plant Misc		
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(j)	(k)	(l)	(m)	(n)
1	Gp A - Staff HQ inf bde gp airhead	8		1		1					1	
2	Field cash office (a)	2										
3	Gp B - Sigs Bde airhead tp (a)	31		2		2					5	
4	Gp C - BAA Coy RASC	81		1		1		20	10		3	
5	Indep field sqn	6										
6	RAOC det (a)	9										
7	Courier and postal unit	4									2	
8	Inf wksp det	16		2(b)		2						
9	Gp D - Med ADS	60		2		2					3	
10	FST and FTT (a)	7			1(d)							
11	Gp E - Misc Pro det	7	2	1		1					1	
12	Admin staff (a)	3(e)										
13	Gp F - Engr Airfield maint element (a) (f)	46		3		3				3(c)	4	
14	TOTAL, inf bde gp airhead (army elements) tac airlift	280	2	12	1	12		20	10	3	19	

(a) To be found from outside bde gp.

(b) 1 Ashton Young generator, 1 with winch.

(c) 1 grader, 1 roller, 1 earth moving light.

(d) Refrigerator blood.

(e) Cooks.

(f) For the purposes of this table it is assumed that the airhead engr element is found from outside the bde gp. The numbers of pers, vehs and plant shown are arbitrary. Actual numbers required will depend on circumstances.

STAFF TABLE SHOWING FORCE HQ (ARMY ELEMENT) - ASLT ECHELON

TABLE D

1	Staff and HQ sqn	141(a)		17		17					(c)	(a) Incl 27 for stockpile staff.
2	Staff earmarks (b)	22									(c)	
3	Sigs element incl LAD	326		31		31		2	2		(c)	(b) Required to reinforce force HQ for war. Not required for cold war ops.
4	TOTAL, force HQ less earmarks	467		48		48		2	2			
5	TOTAL, force HQ incl earmarks	489		48		48		2	2		(c)	(c) Not yet calculated.

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STAFF TABLE SHOWING FORCE HQ (ARMY ELEMENT) - FOLLOW UP ECHELON

FOR STAFF COLLEGE USE ONLY

TABLE E

Serial	Unit	Pers	MCs	Vehs		Tlrs			C Vehs		Freight Short Tons	Remarks
				¼-ton	3-ton and 1-ton Misc	½-ton Cargo	1-ton Misc	3-ton Misc	Tractor Misc	Plant Misc		
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(j)	(k)	(l)	(m)	(n)
1	Staff and HQ sqn	54	9	24(a)		24					(b)	(a) Incl 3 x ¾-ton.
2	Staff earmarks	8									(b)	(b) Not yet calculated.
3	Sigs element incl LAD	39		2	10(c) 9(d)	4	16				(b)	(c) 1-ton misc.
4	TOTAL, force HQ less earmarks	93	9	26(a)	19	28	16				(b)	(d) 3-ton misc.
5	TOTAL, force HQ incl earmarks	101	9	26(a)	19	28	16				(b)	

SUMMARY - TABLES A, B AND C

Serial	Table	Pers	MCs	Vehs								Tlrs						Guns	Ac	C Vehs		Freight Short Tons
				¼-ton	¾-ton	1-ton Cargo	1-ton Misc	3-ton Cargo	3-ton Misc	10-ton Cargo	Cars Scout	½-ton Cargo	¼-ton Misc	1-ton Cargo	1-ton Misc	2-ton Misc	3-ton Misc	Towed Misc	Light Misc	Tractors Misc	Plant	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)	(t)	(u)	(v)	(w)	(x)
1	TOTAL, aslt echelon	3107	23	264	53		6				22	269	8				14	42	6	7	4	268
2	TOTAL, airhead	280	2	12					1			12					20			10	3	19
3	TOTAL, follow up echelon	785	23	29	18	3	8	160	33	6	5	41	10	65	28	2	2			9	7	321
4	TOTAL, inf bde gp incl units att	4172	48	305	71	3	14	160	34	6	27	322	18	65	28	2	36	42	6	26	14	608

SUMMARY - TABLES D AND E

1	TOTAL, force HQ (army element) - aslt echelon	489		48								48					2			2		
2	TOTAL, force HQ (army element) - follow up echelon	101	9	23	3		10		9			28			16							
3	TOTAL, force HQ (army element)	590	9	71	3		10		9			76			16		2			2		

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PARA BDE GP

STAFF TABLES

(Corrected to 1 Aug 62)

Serial	Unit	Estb	Last Amdt	Offrs	OR	MCs	Wheels	Tracks	Guns	Tlrs	Total Vehs (excl MCs and Tlrs)	Remarks
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(j)	(k)	(l)	(m)	(n)
1	HQ para bde gp	I/510/1 (P and W)	2	20	37	3	3 (a)	-	-	3	3	(a) Vehs in HQ para bde gp and small ancillary units are held on HQ coy estb but table shows normal use by component units. (b) Tpt for one team and eqpt for both teams provided by sig sqn. (c) 105-mm pack how. (d) Incl 1 grader and 3 tractors. (e) Tractor size IV. (f) 106-mm recoilless. Sp coy also holds 6 x 3-in mortars and 6 medium MGs. (g) Each patrol mounted in 1 long wheelbase landrover and 3 Ferrets. (h) Incl 6 ac (3 hels, 3 fixed wing). (j) Incl 1 tanker refueller ac.
2	Para air con team (b)	I/614/1	-	2	-	-	1 (a)	-	-	1	1	
3	Sig sqn (less para regt tp)	I/705/2 (P and W)	1	6	134	-	21	-	-	21	21	
4	LAD	I/961/1 (P and W)	1	-	10	-	3 (a)	-	-	3	3	
5	Bde int pl	I/1154/1 (P and W)	3	2	8	-	3	-	-	3	3	
6	AB forces liaison sect	I/765/1	-	1	2	-	1 (a)	-	-	1	1	
7	HQ coy, para bde gp	I/511/1 (P and W)	2	2	61	-	14 (a)	-	-	13 (a)	14 (a)	
8	TOTAL, serials 1-7			36	254	3	47	-	-	46	47	
9	Para close sp regt	I/613/2 (P and W)	1	36	447	-	98	-	18 (c)	80	98	
10	Bty	I/613/2 (P and W)	1	8	118	-	27	-	6 (c)	21	27	
11	Para close sp regt	I/705/2 (P and W)	1	-	12	-	3	-	-	3	3	
12	Para close sp regt	I/963/2 (P and W)	-	1	24	-	7	-	-	7	7	
13	TOTAL, para close sp regt			37	483	-	108	-	18	90	108	
14	Para sqn	I/653/1 (P and W)	2	10	216	2	22 (d)	1 (e)	-	17	23	
15	Tp, para sqn	I/653/1 (P and W)	2	2	55	-	4	-	-	4	4	
16	Para bn	I/764/2 (P and W)	1	36	704	-	42	-	6 (f)	41	42	
17	Rifle coy	I/764/2 (P and W)	1	5	111	-	2	-	-	3	2	
18	Sp coy	I/764/2 (P and W)	1	4	111	-	16	-	6 (f)	15	16	
19	HQ coy	I/764/2 (P and W)	1	4	117	-	12	-	-	9	12	
20	Indep coy PARA	I/766/2 (P and W)	2	6	96	-	21	-	2 (f)	4	21	
21	Anti-tank sect	I/766/2 (P and W)	2	-	10	-	2	-	2 (f)	-	2	
22	Admin sect	I/766/2 (P and W)	2	1	33	-	4	-	-	3	4	
23	Pathfinder/ recce patrol	I/766/2 (P and W)	2	1	15	-	4 (g)	-	-	-	4	
24	Recce flt	III/645/3 (P and W)	-	5	23	1	9	-	-	8	9	
25	Light ac flt wksp	III/640/2 (P and W)	-	-	14	-	1	-	-	1	1	
26	TOTAL, recce flt and wksp			5	37	1	10	-	-	9	10	

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PARA BDE GP (CONTINUED)

STAFF TABLES

(Corrected to 1 Aug 62)

Serial	Unit	Estb	Last Amdt	Offrs	OR	MCs	Wheels	Tracks	Guns	Tlrs	Total Vehs (exc MCs and Tlrs)	Remarks
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(j)	(k)	(l)	(m)	(n)
27	HQ para coy RASC (k)	I/808/1 (P)	2	4	33	2	4	-	-	3	4	(k) In 16 Para Bde Gp at present on a restricted estb.
28	Tpt pl	I/809/1 (P)	1	1	56	7	24	-	-	1	24	
29	Comp pl	I/803/2 (P)	3	2	31	2	2	-	-	-	2	
30	Para pl	I/806/2 (P and W)	3	2	35	2	21	-	-	35	21	
31	LAD	I/964/2 (P and W)	-	1	26	-	4 (1)	-	-	3	4	(1) Incl 1 tractor rec light.
32	TOTAL, para coy RASC and LAD			11	237	20	79	-	-	43	79	
33	HQ para field amb	I/855/1 (P and W)	2	8	91	-	14	-	-	10	14	
34	Para FST	I/855/1 (P and W)	2	2	12	-	2	-	-	2	2	
35	Coy HQ	I/855/1 (P and W)	2	1	1	-	1	-	-	1	1	
36	Sect	I/855/1 (P and W)	2	1	17	-	2	-	-	2	2	
37	TOTAL, para field amb			14	155	-	23	-	-	19	23	
38	Heavy drop coy RAOC	I/1156/1 (P and W)	-	3	66	-	11	-	-	6	11	
39	Pl	I/1156/1 (P and W)	-	1	27	-	5	-	-	2	5	
40	Para OFP	I/907/1 (P and W)	3	2	36	1	9	-	-	7	9	
41	Para wksp	I/962/2 (P and W)	-	3	82	-	15	-	-	13	15	
42	Stores sect	I/908/1 (P and W)	2	1	11	-	8	-	-	4	8	
43	TOTAL, para wksp and stores sect			4	93	-	23	-	-	17	23	
44	HQ para bde gp pro unit	I/1004/2 (P and W)	-	1	5	1	2	-	-	2	2	
45	Pro sect	I/1005/2 (P and W)	-	-	15	1	3	-	-	3	3	
46	TOTAL, para bde gp pro unit (HQ and two sects)			1	35	3	8	-	-	8	8	
47	Bde gp courier and postal unit	I/1102/1 (LE)	-	1	12	-	3	-	-	1	3	
48	Airptbl cash office	I/1154/1 (P and W)	-	1	2	-	1	-	-	1	1	
49	TOTAL, para bde gp			239	3834	30	491	1	38	391	492	

NOTE

Vehs, eqpt and men of a para bde gp are normally divided into four echelons for ops - the para element, the air landing element, the sea tail and the rear details left at the base. The breakdown will vary for each op, but some indication of the sort of div which might be expected between the para and air landing elements and the sea tail and rear details can be obtained from looking at the staff tables for an inf bde gp on pages 212-213.

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MAX RANGES OF AFV WEAPONS IN METRES

Serial	AFV	Weapon	HE	Anti-tank	MG	Remarks
(a)	(b)	(c)	(d)	(e)	(f)	(g)
1	Centurion Mark 10	105-mm	6,500	1,850	-	
		.30-in coaxial MG	-	-	750	
		.30-in comd's MG	-	-	750	
2	Conqueror	120-mm	-	2,300	-	Above this range a hit will kill, but accuracy deteriorates
		.30-in coaxial MG	-	-	750	
		.30-in comd's MG	-	-	750	
3	Saladin	76-mm	4,600	950	-	
		.30-in coaxial MG	-	-	750	
4	Saracen	.30-in MG	-	-	750	
5	Ferret Mark I	.30-in MG or 7.62-mm LMG	-	-	460	
6	Ferret Mark II	.30-in MG	-	-	750	
7	Hornet	Malkara	-	450 (min) 4,000 (max)	-	

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PARTICULARS OF GUNS AND HOWS

Serial	Eqpt	Ranges (metres)		Ammo			Rates of Fire					Remarks
		Max	Planning	Type	Weight lbs	1st line rpg	Intense	Rapid	Normal	Slow	Very Slow	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(j)	(k)	(l)	(m)	(n)
1	25-pr	12,200 with super charge	9,100	*HE Smoke HESH Tgt indicating Illuminating Super charge Normal cartridges	25 22 20 20-22	192 22 16 22 22 36 258	5	4	3	2	1	HE shells' fuzes are:- (a) 80% direct action (b) 10% VT (c) 10% mech time.
2	105-mm pack	10,000	8,700	*HE HEAT Smoke Tgt indicating Illuminating	33	150 12 16 16 16	5	4	3	2	1	Ammo scales not applicable to cdo regt RA.
3	5.5-in	16,500 with super charge	13,700	*HE	80	134	2	1½	1	⅔	⅓	
4	155-mm how SP	14,900	13,200	*HE Smoke Other carriers	95	120 14 As required	2	1½	1	⅔	⅓	Cruising range 75 miles.
5	8-in how	17,000	15,500	*HE	200	56	1½	1	½	⅓	1/6	(a) Time into action ¼ hr to 1 hr according to ground. (b) Top traverse 60°, to engage a tgt outside this arc takes considerable time.

* Incl airburst

FRONTAGES AND SAFE DISTANCES
(all in yards)

Eqpt	Max Effective Frontage of One HE Shell	Reasonable Safe Distance for HE from Nearest Tps	
		Observed Fire	Predicted Fire
(a)	(b)	(c)	(d)
25-pr	35	200	400
105-mm pack	40	250	500
5.5-in gun	50	400	500
155-mm how	55	400	500
8-in how	65	700	800

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NUCLEAR ARTY

Serial	Nature	Eqpt	Warhead Yields	Types of Burst	Range (km)		Delivery Errors		Rate of Fire by Bty
					Min	Max	CEP	PE_{nb}	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(j)	(k)
1	Gun	8-in how	1 and 5 KT	High and low airbursts	3	15	Divide range by 200	Divide range by 400	4 per hr
2	FFR	762-mm	5, 10, 20 and 50 KT	High and low air surface bursts	7	40	Divide range by 100	Divide range by 200	1 per hr
3	SSGW	Corporal	5, 10, 20 and 50 KT	High and low air surface bursts	40	120	500	50	4 per day

These figures are for trg only.

SURFACE TO AIR ARTY

Serial	Nature	Eqpt	Max Effective Height	Ammo			Remarks
				Weight (lbs)	Type	1st line (rpg)	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1	LAA	40-mm L70 (towed) with FCE AA Number 7	7,000 ft	2	HE	600	Can fire at the rate of 240 rounds per min.
2	SAGW	Thunderbird	40,000 ft	4,000 (total missile weight)	HE (blast)	4	Performance details are classified. Only trg figures are given.

RADAR USED BY SURFACE TO AIR ARTY

Serial	Type of Set	How Carried	Used By	Used For	Max Range	Remarks
(a)	(b)	(c)	(d)	(e)	(f)	(g)
1	Radar AA Number 4 Mark 7	Self-contained tlr towed by Matador	SAGW and LAA	Tac con - SAGW Local warning - LAA	70,000 metres on Canberra type ac at 10,000 ft	
2	Radar AA Number 3 Mark 8	Self-contained tlr towed by Matador	SAGW	Tgt illumination	(classified)	

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Serial	Type of Set	How Carried	Used By	Used For	Accuracy and Range	Remarks
(a)	(b)	(c)	(d)	(e)	(f)	(g)
1	S rg Recorder Number 5 (7 pen)	Truck 3-ton	S rg tps of the regt (loc LR). Loc bty of strategic res. Loc bty FARELF.	Loc of guns. Secondary roles:- (a) Loc of mortars. (b) Adjustment of fire.	Fix within 100 yds up to 1½ times base length or within 200 yds up to 2½ times base length. Usual base length 10,000-12,000 metres.	1 per S rg tp. Takes some 8 hrs to deploy.
2	Radar FA Number 3 Mark 11	Self-contained tlr towed by Matador	Met sects of regt (loc LR). Loc bty of strategic res. Loc bty FARELF.	Wind measurement		1 per met sect.
3	Radar FA Number 8 Mark 1	Tlr towed by 1-ton armd or Saracen	Mortar loc sects of regt (loc SR). Loc bty of strategic res. Loc bty FARELF.	Loc mortars. Secondary roles:- (a) Loc other high trajectory weapons and possibly FFRs. (b) Surv. (c) Con of light ac. (d) Adjustment of fire.	Fix well within 100 yds under optimum siting conditions. Max range some 8,000 metres for 82-mm mortars. Longer for medium and heavy mortars.	2 per radar sect. Deployed well apart. Uses silenced generator.
4	Radar GS Number 9 Mark 1	Mounted in FV 610	Surv tp of regt (loc LR).	Medium range ground surv.	Sector scan - 270 mils Traverse - 6,400 mils Elevation - + 270 mils to - 270 mils Range - 12,500 metres for small vehs; 18,000 metres for larger vehs Accuracy range ± 100 metres; bearing ± 4.5 mils	
5	Drone system with Radar Number 3 Mark 10	Drones carried in truck 3-ton. Radar towed by Matador.	Drone tp of regt (loc LR).	AB tgt acquisition directed by radar	Max range - 30 miles	1 con system and 12 drones per tp.

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INF WEAPONS

Serial	Weapon	Cal	Service Rates of Fire			Max Effective Range	Remarks
			Rapid	Normal	Slow		
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1	SL Rifle L1A1	7.62-mm	20 rpm	5 rpm	-	Sighted to 600 metres, but rarely used in action over 300-350 metres.	Self loading. Mag capacity 20 rounds. Weight 9 lbs 6 ozs. Carried by all offrs (less those at bn HQ), sect comds and all rfn.
2	SMG - L2A3	9-mm	Automatic - 550 rpm Single shot - 120/140 rpm			200 metres	Mag capacity - 34 rounds. Carried by offrs at bn HQ, most sigs, sp weapons and admin pers, dvrs and att pers: total in the bn 221.
3	Pistol	.38-in	6 rounds in 5 seconds			20-25 metres	At present issued to offrs. Will shortly be withdrawn and replaced by 9-mm which will be held as a pool in each bn.
4	GPMG	7.62-mm	800 rpm	400 rpm	-	Light role 400 metres. Sustained fire role 2,000 metres.	The light GPMG is given a sustained fire role by use of a conversion kit containing heavy barrels, sights and tripod.
5	LMG (Bren)	7.62-mm	120 rpm	-	30 rpm	500 metres	Mag capacity 28 rounds. To be replaced in time by GPMG (light role).
6	2-in Mortar	-	3-4 rpm	-	-	450 metres	Smoke, illuminating and flare bombs carried.
7	81-mm Mortar	-	20 rpm	-	8 rpm	5,000 metres	
8	Grenade 36	-				25-35 metres	Thrown by hand. Thrower must be behind cover.
9	Grenade 80 (Smoke)					Can be thrown 25-35 metres.	
10	Grenade 83 (Coloured Smoke)						Supplied in red and yellow. Only held in certain theatres.
11	Grenade - Energa	75-mm				75 metres	Penetrates 8-in armour. Scale of issue is 2 launchers per sect plus 10 spare = 82.
12	Carl Gustav 84-mm Recoilless Gun					350 metres	Penetrates 10-in armour.
13	Mobat Each gun has an LMG as the sub-cal ranging device.	120-mm	Max rate of fire about 4 aimed rpm.			Normal battle range 800 metres.	Back blast is considerable, a cone shaped danger area extending from behind the gun at about 40° and for a distance of about 100 yds. Provided tps are dug in, the danger over 20 yds is not great.

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AFV CHARACTERISTICS

Serial	Veh	Armament	Weight	Height	Length	Width	Petroleum	Range	Ammo
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(j)	(k)
1	Centurion Mark 10 (main battle tank)	1 x 105-mm 1 x .30-in coaxial MG 1 x comd's .30-in MG	51 tons	9' 7½"	32' 4"	11' 1"	228 gals (MT 80)	150 miles (roads) 65 miles (mixed mov) 10 hrs battle-field day	70 rounds x 105-mm 14 belts @ 250 rounds .30-in MG
2	Conqueror (heavy gun tank)	1 x 120-mm 1 x .30-in coaxial MG 1 x comd's .30-in MG	70 tons	10' 4"	39'	13'	221 gals (MT 80)	100 miles (roads) 55 miles (mixed mov) 9 hrs battlefield day	35 rounds x 120-mm 30 belts @ 250 rounds .30-in MG
3	Saladin (armd car)	1 x 76-mm 1 x .30-in coaxial MG	13 tons	7' 5"	16'	8' 3"	53 gals (MT 74)	240 miles (roads) 200 miles (mixed mov)	42 rounds x 76-mm
4	Saracen (wheeled APC)	1 x .30-in MG	10 tons	8'	16' 4"	8' 3"	44 gals (MT 74)	220 miles (roads) 170 miles (mixed mov)	-
5	Trojan (tracked APC)	1 x .30-in MG	13 tons	6' 5"	17' 6"	8' 9½"	80 gals (MT 80)	290 miles (roads) 150 miles (mixed mov)	-
6	Ferret Mark I (scout car liaison)	1 x 7.62-mm LMG	4 tons	4' 8"	12' 7"	6' 3"	21 gals (MT 74)	200 miles (roads) 120 miles (mixed mov)	-
7	Ferret Mark II (scout car recce)	1 x .30-in MG	4 tons	6' 2"	12' 7"	6' 3"	21 gals (MT 74)	As Mark I	-
8	Hornet (modified 1-ton armd)	Malkara	5½ tons	7'	16' 2"	6' 9"	32 gals (MT 74)	250 miles	4 missiles on veh

Notes. 1. 1 x 3-ton veh can carry:- 675 gals of MT 80, OR 80 rounds of 20-pr, OR 45 rounds of 120-mm, OR 272 rounds of 76-mm.

2. 1-ton armd used as APC has same dimensions, fuel capacity and range as Hornet.

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B VEH CHARACTERISTICS

Veh Type	Make	Unladen Weight (lbs)	Laden Weight (lbs)	Br Cl	Dimensions					Average Max Speeds		Approx mpg	Approx Range of Action	Type of Fuel	Remarks
					Height	Length	Width	Track	Wheel Base	Roads (mph)	Cross-Country (mph)				
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)
MC 500 cc	Triumph	384	384	-	3' 5"	7'	2' 4"	-	4' 5"	55	20	45	200	74 MT Gas	
Tlr ½-ton cargo	Sankey	830	1,950	1	3' 8"	9' 1"	4' 8"	4'	-	-	-	-	-	-	
Tlr 1-ton cargo	Sankey	1,520	3,760	3	5' 4"	11' 6"	6' 7"	5' 8"	-	-	-	-	-	-	
Car GS utility heavy	Rover	4,060	4,878	2	6' 6"	14' 11"	5' 6"	4' 3"	9' 1"	45	15	21	200	74 MT Gas	Can be FFW
Truck GS ¼-ton	Rover Mark 5	2,865	3,665	2	6' 4"	12' 1"	5' 2"	4' 2"	7' 4"	45	15	21	220	"	"
Truck GS ¼-ton	Austin	3,668	4,230	2	6'	12'	5' 2"	4' 1"	7'	50	20	22	300	"	"
Truck GS 1-ton	Austin K9	6,944	9,858	6	8' 8"	17' 5"	7' 3"	5' 11"	11' 5"	27	12	15	300	"	"
Truck GS 1-ton	Morris MRA 1	7,140	9,500	6	8' 9"	17' 8"	6' 10"	5' 3"	10' 3"	26	12	13	255	"	"
Truck 1-ton armd	Humber	10,528	12,268	16	7'	10' 2"	6' 9"	5' 3"	9'	40	25	8	250	"	"
Truck amb 3-ton	Ford E3	10,900	12,300	8	10' 7"	21' 10"	7' 10"	6'	12' 6"	30	12	10	280	"	4 stretchers
Truck GS 3-ton	Bedford RL	8,820	16,250	9	10' 2"	20' 11"	8' 1"	6' 1"	12' 11"	35	12	10	250	"	Carries 20 men in TCV role
Truck GS 10-ton	AEC	23,170	45,500	20	13' 10"	28' 2"	8'	6' 6"	16'	24	12	8	300	DIESO	Drive 6 x 4
Truck GS 10-ton	Leyland	29,600	52,000	21	13' 10"	29' 9"	8' 6"	6' 10"	17' 8"	26	15	3.5	350	74 MT Gas	Drive 6 x 6
Tractor rec medium	Scamell	26,180	29,160	11	10' 4"	20' 8"	8' 6"	7' 1"	11' 6"	29	12	5	315	"	16-ton winch
Tractor GS tank tptr with tlr	Thorneycroft	119,000	231,000	120	10' 4"	6' 3"	10' 6"	8'	-	28	5	1.25	250	"	Carrying Centurion

Notes. (a) Laden weight excls crew.
(b) Height measurement incls normal canopy and superstructure.

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C VEH CHARACTERISTICS

Veh Type	Make	Unladen Weight (lbs)	Veh Load Cl	Height	Length	Width	Average Speed (mph)		Remarks
							Road	Cross-Country	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(j)	(k)
Light wheeled tractor	Michigan model 75 DS	Approx 13,000-14,000	12	10' 0" with cab 6' 6" without	Approx 18' 9"	7' 1"	20	10	Tows 2-ton 4 wheeled tlr carrying altn front and back end eqpts.
Medium wheeled tractor	Marshall model Gainsborough	With dozer 32,648 With shovel 34,460	With dozer 17 With shovel 19	9' 8½" with cab 7' 9" without	With dozer 19' 6" With shovel 22' 6"	With dozer 9' 6" With shovel 8' 11"	21	12	When issued with both dozer and shovel will carry spare eqpt in 2-ton 4 wheeled tlr.
Angledozer size II	Fowler model 3M3	With dozer and winch 35,460	With dozer and winch 18	8' 10"	18' 4"	12' 8"	Carried on tptr	5	
Tractor crawler size IV	Caterpillar	14,400	9	5' 1"	15' 0"	7' 0"	6	4	
Tractor 4 x 4 dumper	Morewear	12,000	9	6' 8"	24' 0"	7' 0"	15	10	
Excavator truck mounted ⅜ cubic yd	Blaw Knox BK 50 truck mounted	47,500	24	14' 0"	25' 9" 34' 9"	8' 1"	16	10	Length chassis alone. Length with jib.
Grader 12 ft mouldboard	Blaw Knox BK 12	27,400	11	9' 9" with cab 7' 8" without	25' 5"	8' 3"	15	10	
Scraper towed 8 cubic yds	Onions	15,120	8 unladen 10 laden	9' 6½"	28' 10"	9' 5"	20 Towed	10	
Air compressor	Pescara	18 cwts	3	4' 9"	9' 5"	4' 10"	25 Towed	10	105 confirmed
Tractor forklift	Michigan 175 DS	26,420	NA	7' 10"	19' 8"	8' 5⅜"	24	10	
Crane 7-ton br	Coles	51,571	26	13' 9"	38' 8½"	8' 2"	32	10	
Mech minelayer	MEXE	3 tons	5	8' 3"	22' 3"	7' 11"	20 Towed	6	
Water purification tlr 3,000 gph	Patterson	2½ tons	3	8' 4"	15' 0"	6' 4½"	30	5	

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PERFORMANCE DETAILS OF FIXED WING AC AND HELS OF THE AAC

Ac	Passengers	Speed (kts)	Max Operating Height (ft)	Landing Strip (yds)	Fuel	Range (nm)	Endurance (hrs)	Utilisation Rate (hrs/month)	Remarks
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(j)	(k)
Alouette	4	80	5,000	Circle radius 30	AVTAG or AVTUR	240	3	30	Two stretcher cases and one sitting cas can be carried.
Auster Mark 9	2	80	6,000	200-250 x 25	100/130 AVGAS	250	3	30	One stretcher case and one sitting cas can be carried.
DH Beaver	5	120	10,000	300-350 x 25	100/130 AVGAS	400 *650	3½ *6	35	Two stretcher cases and two sitting cas can be carried.
Scout	4	100	7,000	Circle radius 30	AVTAG or AVTUR	300	3	25	Three stretcher cases and one sitting cas can be carried.
Skeeter 12	1	75	3,500	Circle radius 30	100/130 AVGAS	150	1¾	25	Will not op in tropical climates.

Notes. 1. Column (d) refers to the max height above mean sea level of the strip or LG from which the ac can op.

2. Column (j) utilisation rate allows for ac unserviceability. Thus, for planning purposes, a recce flt with three Skeeters should be able to get 75 flying hrs out of its Skeeters in one month.

3. The Beaver range and endurance figures marked with an asterisk are with extra fuel tanks.

4. The Alouette and Scout both have a gas turbine power plant.

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PERFORMANCE DETAILS OF CURRENT TPT AC

	Ac	Cruise Speed (kts)	Runway or Strip (yds)	Fuel	Max Tps	Max payload/ range (lbs/nm)	Max range/ payload (lbs/nm)	Utilisation (hrs/month)	Remarks
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(j)
LRT	Britannia C1	300	1,800	AVTUR/ AVTAG	113	33,000/2,800	16,000/3,900	70	Typical load = 4 x ¼-ton Rovers + 4 x ½-ton tlrs + 11 tps.
LRT	Comet C2	410	1,900	AVTUR/ AVTAG	44	44 tps/1,900	32 tps/2,300	100	Tps and kit only: can carry 6 stretcher patients.
LRT	Comet 4C	402	2,000	AVTUR/ AVTAG	96	96 tps/2,200	32 tps/2,800	100	Tps and kit only: can carry 12 stretcher patients.
MRT	Argosy C1	230	900	AVTUR/ AVTAG	72	27,000/300	6,000/1,700	70	Typical load = 3 x ¼-ton Austin trucks.
MRT	Beverley C1	150	1,400	AVGAS 100/130	94	37,000/150	3,000/2,000	60	Typical load = 3 x Ferrets Mark 1 + 6 tps.
MRT	Hastings C2	200	1,800	AVGAS 100/130	44	15,600/1,150	5,500/2,200	60	Typical load = 2 x ¼-in Rovers + 2 x ½-ton tlrs with dvrs.
SRT STOL	Pioneer CC1	100	300	AVGAS 100/130	4	1,000/100	0/750	65	Can carry 1 stretcher + 2 passengers in cas evac role.
SRT STOL	Twin Pioneer CC1	95	375	AVGAS 100/130	12	3,000/100	2,000/600	50	Can carry 9 x stretchers + 2 passengers in cas evac role.
SRT VTOL	Belvedere	100	-	AVTAG	18	5,000/50	1,800/300	40	Can carry 12 stretchers in the cas evac role.
SRT VTOL	Wessex 2	95	-	AVTAG	14	3,800/40	1,800/300	40	Can carry 8 stretchers in the cas evac role.
SRT VTOL	Whirlwind 10	85	-	AVTAG	8	1,800/50	500/300	40	Can carry 6 stretchers in the cas evac role.

Notes. 1. The above table is only intended to convey a broad idea of the capabilities of the ac concerned. Actual payloads for a specific op or exercise will be detailed by the RAF formation operating the ac.

2. Performance figures are quoted for take-off at sea level in temperate conditions. High altitude airfields (eg Nairobi - 6,000 ft) and high runway temperatures will reduce payloads significantly.

3. Radius of action for MRT and SRT ac can be calculated approx by taking 50% of the ranges quoted if the return flt is unladen or 40% of range if the return flt is with load.

4. Max range/payload in column (g) for each ac is the max range with a useful load. Absolute max ranges for rft are, in fact, a little higher in the majority of cases.

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GLOSSARY OF SIG TERMS

The following are some of the terms frequently used in connection with comms. Those marked * are the agreed NATO terms. The more tech ones have been omitted.

Term or Abbreviation	Meaning
ACT	Apparatus Carrier Telephone (see Carrier Eqpt).
ADPS	Automatic Data Processing Systems. A complete system based on the use of electrcnic computers for the solution of problems and the storage of info of a mil nature. The term also incls the means of comm between computers and between the input device and the computer when they are separated.
AM	Amplitude Modulation (see Modulation).
*Audio Freq	A freq which can be detected as a sound by the human ear. The range of audio freqs extends from 20 to 20,000 cycles per second.
Bandwidth	All those freqs lying between two particular pts in the freq spectrum. It is usually expressed by the difference between these freqs.
Carrier Eqpt	Eqpt which can provide more than one speech channel over a comm system.
CFS	Carrier Freq Shift. A method of telegraphy usually found on radio systems, where a sig is transmitted by slightly displacing the fundamental freq on which the eqpt is working.
Channel	A band of freqs which can be used to provide either speech or telegraph comms between two places.
Channelling Eqpt	See Carrier Eqpt. The two are synonymous.
*Cipher, Off-line	A method of encryption which is not associated with a particular transmission system and in which the resulting cryptogram can be transmitted by any means.
*Cipher, On-line	An automatic method of encryption associated with a particular transmission system, whereby sigs are encrypted and passed direct to line to op the reciprocal eqpt at the distant station.
*Circuit	An electronic path between two or more pts capable of providing a number of channels.
Circuit, 2-wire	A comm system where the sigs originated at each end use the same path, eg a normal telephone pt to pt link over a cable pair.
Circuit, 4-wire	A comm system where the send and receive directions of signalling are kept physically or electrically separate.
Crystal Con	The use of the mech and electrical properties of a crystal (quartz or other similar minerals) to con the operating freq of a radio system. This method is noted for its accuracy and stability.
*Cycle	One complete positive and one complete negative alternation of a current or voltage.
*Duplex	The provision of comm between two pts in both directions simultaneously.
Exchange CB	Central bty exchange. An exchange with CB facilities is one where the user lifts his telephone to call an op. The op sees a lamp light up for the extension concerned. The power to op this lamp is provided from a bty system loc at the exchange.
*Facsimile	A system of telecomm for the transmission of fixed images with a view to their reception in a permanent form.
*FDM	Freq Div Multiplex. A multiplex system in which two or more sigs are transmitted simultaneously over a common path, each sig occupying a different freq band.
Freq	The number of cycles occurring in a fixed period of time, usually one second.
FM	Freq Modulation (see Modulation).
Freq Spectrum	All freqs ranging from the lowest (ie sub-audio) to the highest yet detected (ie cosmic rays).

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GLOSSARY OF SIG TERMS (CONTINUED)

Term or Abbreviation	Meaning
Generator	Apparatus for producing AC electricity.
HF	High Freq. Radio freqs between 3 and 30 Mc/s.
Kc/s	Kilocycles per second. Thousands of cycles per second.
Mc/s	Megacycles per second. Millions of cycles per second.
Modulation	Varying a fixed sig with the particular sig to be transmitted. This can be done in a number of ways eg AM varies the amplitude of the fixed sig in direct sympathy with the characteristics of the sig to be transmitted. FM varies the instantaneous freq of the fixed sig in direct sympathy with the characteristics of the sig to be transmitted, etc.
*Multiplex	Denotes the simultaneous use of a number of channels on a single circuit.
PM	Phase Modulation (see Modulation).
Printed Circuit	A production method whereby internal wiring of eqpt is dispensed with and replaced by an insulating material on which lines of metal are deposited in such a manner that an electric current can flow to and from componenets mounted on the material.
RR	Radio Relay. A means of providing circuits comparable with a line circuit by using radio techniques.
Repeater	A device to amplify a sig.
SHF	Super High Freq. 3,000 to 30,000 Mc/s.
*Sideband	The freq band above or below the carrier, produced by the process of modulation.
Simplex	The provision of comms in one direction only at any one time.
*Switchboard Magneto	A manual telephone exchange at which the subscribers and ops call and clear by means of magneto generators.
*Tape Relay	A method of receiving and retransmitting messages in tape form.
*TDM	Time Div Multiplex. A multiplex system in which the total available circuit time is divided between the number of channels to be transmitted.
*Telecomm	Telecommunication. Any transmission, emission or reception of sigs, signs, writing, images and sounds or int of any nature by wire, radio, vis or other electro-magnetic systems.
*Telegraphy	A system of telecomm for the transmission of int by the use of a sig code.
*Telephony	A system of telecomm set up for the transmission of speech or, in some cases, other sounds.
Transistor	A device using semi-conductor materials which displays many of the advantages of the thermionic valve but requires less power and is smaller. At the present it suffers from limitations of freq and power handling capacity.
UHF	Ultra-High Freq. 300 to 3,000 Mc/s.
Watt	A unit of power. A powerful electric light bulb uses 100 watts. A single bar electric fire uses about 1,000 watts.
Wavelength	The distance, usually measured in metres, between any two adjacent identical pts on a waveform.
VF	Voice Freq, ie audio freq tones.
VHF	Very High Freq. 30 to 300 Mc/s.
Yagi Aerial	A particular type of directional aerial to handle VHF sigs.

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FIELD RADIO AND RR EQPT

Serial	Set (Note 1)	Replacing	Principal Role	Other Roles	System	Freq Coverage (Mc/s)	Range (miles) (Note 3)		Number of Channels	Weight (lbs) excl Btys	Remarks
							Day	Night			
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(j)	(k)	(l)	(m)
HF Sets 1	A510	68T	Inf. Pl/coy (in special conditions)	-	AM	2-10	Voice 5 Telegraphy 11	3 5	4	20 (incl dry btys)	Channels are pre-set crystal con. This is an Australian set for use in jungle areas and elsewhere where VHF is unsuitable. Skywave ranges of up to 40 miles voice and 120 miles telegraphy may be obtained with correct choice of aerial and freq.
2	62	-	Para bde gp	-	AM	6-10	Voice 15 Telegraphy 25	10 20	-	29	Replacement set for this role is under development.
3	76	-	Para bde gp (para-dropped)	-	AM	2-12	Telegraphy only Up to 800	Up to 600	-	30	Morse only. Replacement set is under development.
4	C11	52	Sigs. Comd nets in divs and bde gps	Sigs regt rear links. HF radio links at corps.	AM	2-16	Voice 25 Telegraphy 50	18 35	Free tuning	120	Basic HF set for R SIGS. Transmitter only; R210 is associated receiver and weighs 35 lbs.
5	C12 (interim)	19 and 19 HP	Misc services, LOs and SOs at div and bde gp HQ until C13 becomes available	-	AM	1.6-10	Voice 15 Telegraphy 30	10 20	Free tuning	80	

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Serial	Set (Note 1)	Replacing	Principal Role	Other Roles	System	Freq Coverage (Mc/s)	Range (miles) (Note 3) Day	Range (miles) (Note 3) Night	Number of Channels	Weight (lbs) excl Btys	Remarks
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(j)	(k)	(l)	(m)
6	C13	19, 19 HP and C12	RAC. Armd car regt - within sqns	Arty CB comms, Regts (40/70/FCE7). Services. As replacement for C12. Misc. LOs and SOs at div and bde gp HQ.	AM or PM	1.5-12	Voice 20 Telegraphy 40	15 30	Free tuning	80	Current HF set for all arms use. Same size and connectors as C42 and C45. Can work to C13 HP on PM. Airptbl in AIRTEC containers.
7	C13 HP	52 and 19 HP	RAC. Armd car regt net	-	PM	1.5-12	Voice 40 Telegraphy 80	30 50	Free tuning	160	Can not work on AM. Can therefore only work to another C13 HP or C13 (low power). Airptbl in AIRTEC containers.
8	D11	53	Sigs. Corps and army gp sig regts	-	AM	2.1-20	Voice 35/70 Telegraphy 100	25/60 60	Free tuning	500	Carried in trucks 1-ton. Skywave ranges up to 1,500 miles using suitable aerials.
9	D13	-	Sigs. Army gp sig regts; rear link from field HQ to COMCAN network	-	AM	2.1-22	Voice 50/100 Telegraphy 150	40/80 80	Free tuning	2 x 1-ton vehs	Skywave ranges up to 2,000 miles using suitable aerials. COMCAN - Commonwealth Comms Army Network.
VHF Sets (freq overlap is shown in diagrammatic form on page 323)											
10	A40	88	Inf. Pl/coy Sect/pl	Inf. Pl/coy/sect to tanks.	FM	47-55	1¼	1¼	6 (pre-set)	8 (incl dry btys)	Voice only. Whisper facility. Based on Canadian set (CPRC 26). Sets will be issued as Type A and Type B. They will each have 3 excl channels and 3 common channels.
11	A41	31	Inf. Coy/bn Pl/coy	Inf. Pl/coy/bn to tanks. Mortar pl. Arty. FOO to inf.	FM	38-55	3	3	170	22 (incl dry btys)	Voice only. Facilities for remote op and remote aerial. Based on Canadian set (PRC 510).

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Serial	Set (Note 1)	Replacing	Principal Role	Other Roles	System	Freq Coverage (Mc/s)	Range (miles) (Note 3)		Number of Channels	Weight (lbs) excl Btys	Remarks
							Day	Night			
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(j)	(k)	(l)	(m)
12	A42	38	Arty. FOO's set	-	FM	26-38	3	3	120	22 (incl dry btys)	Identical to A41 apart from freq coverage.
13	A43	-	All Arms Ground/Air.	Arty. Naval gunfire obsn parties. Inf. In amph ops ship to shore.	AM	Type R 244-300	25 at 11,000 ft optical	Little difference	6 (preset)	Type R 30 lbs	Voice only. Manpack. Uses re-chargeable bty or will op from 12 v DC supply and is suitable for veh installation. Whip and elevated aerials.
14	B47	88 AFV 31 AFV	RAC. Armd and armd car regts for comms with inf	Misc. Light liaison ac.	FM	38-56	5/7	5/7	175	30	Voice only. Ground to air range 10/20 miles.
15	B48	38	Arty. OP veh set	Arty. Air OP set.	FM	26-38	5/7	5/7	120	30	Identical to B47 apart from freq coverage.
16	C41	-	Sigs. Bde gp sig sqns, div and corps sig regts	Sigs. CommZ area.	FM	50-100	Near optical	Near optical	12 simultaneous in conjunction with carrier eqpt	240	This RR eqpt will progressively replace US ANTRC now in use.
17	C42	19 in armd and engr regts, 22 and 62 in inf bns	RAC. Armd regts	Engr. Within field sqns. Inf. Bn/coy. EME. ARV comms. Misc. APC comms.	FM	36-60	10/15	10/15	240	90	Voice only. Elevated aerials can be used to give range of 25 miles when static.
18	C45	19	Arty. Close sp regts	-	FM	23-38	10/15	10/15	150	90	Voice only. Similar to C42 but lower freq range. Facilities for remote op and remote aerial. Can work automatic rebroadcast with B48.

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Serial	Set (Note 1)	Replac-ing	Principal Role	Other Roles	System	Freq Coverage (Mc/s)	Range (miles) (Note 3)		Number of Channels	Weight (lbs) excl Btys	Remarks
							Day	Night			
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(j)	(k)	(l)	(m)
19	BE201	-	Sigs. Air sp tentacle ground to air	-	FM	100-156	60 (to ac at 5,000 ft)	160 (to ac at 5,000 ft)	Depending on crystals available	54	To be replaced by A43. See Serial 13.
20	C48	-	Sigs. Air sp tentacle ground to air	-	AM	225-399.9	Line of sight	Line of sight	Free tuning 100 Kc/s spacing	80	Based on US ac set AN/ARC-52 in a more robust mounting for veh use. Limited issue only for BAOR.
SHF Sets 21	B70	-	Sigs	-	FM	4,550-4,830	Line of sight	Line of sight	4 simultaneous in conjunction with carrier eqpt	120	RR eqpt. May accept up to 12 simultaneous channels.

Notes. These apply to pages 318, 319, 320 and 321

1. Nomenclature of Radio Sets. Radio sets are designated by a letter and a two figure number, eg A41.

Letter indicates power consumption and gives some indication of the size of the eqpt.

Letter	Power Consumption	Typical Size
A	below 10 watts	Manpack
B	10-100 watts	Manptbl
C	100 watts-1 kilowatt	Vehicular
D	1-10 kilowatts	Mob or transptbl
E	above 10 kilowatts	Transptbl or static

Number indicates the freq band in which the set ops:-

Number	Freq Band		Wavelengths
10-39	(MF	300 Kc/s	1,000 metres
	(HF	3 Mc/s	100 metres
40-69	(VHF	30 Mc/s	10 metres
	(UHF	300 Mc/s	1 metre
70-99	(SHF	3,000 Mc/s	10 cms
	(	30,000 Mc/s	1 cm

2. Only sets in the same freq band and using the same method of modulation can inter-op.

3. Range depends on type of aerial used. Figures given are those for vertical rod of average height. With HF sets greater ranges can of course be obtained by using horizontal wire aerials.

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FREQ OVERLAP OF VHF RADIO SETS

Arm	Set	Purpose	Freq in Mc/s (range in miles in words)
			20 — 30 — 40 — 50 — 60
Armd	B47	Tank/armd car/APC - dismounted inf	38 Five/Seven 56
	C42	Regt comms	36 Ten/Fifteen 60
Arty	A41	FOO - inf	38 Three 55
	A42	Dismounted FOO - OP veh (C45/B48)	26 Three 38
	B48	Relay set for dismounted FOO when range of A42 alone insufficient	26 Five/Seven 38
	C45	Regt comms	23 Ten/Fifteen 38
	C42	OP - tanks (close sp regt (155 mm SP) only)	36 Ten/Fifteen 60
Inf	A40	(a) Pl to sect/coy to pl (b) Coy/pl/sect - armd (B47)	47 One and a quarter 55.4
	A41	(a) Bn - coy/coy - pl (b) Bn/coy/pl - armd (B47)	38 Three 55
	C42	Bn - coy when range of A41 insufficient	36 Ten/Fifteen 60

Notes. 1. Apart from freq coverage, following sets are identical pairs: A41 and A42; B47 and B48; C42 and C45.

2. Freqs available for allotment are one per 100 Kc/s (one tenth of a Mc) for each set except A40 which has six pre-set crystal con channels.

3. A40 is also used by sp tp of armd car regt; engrs use C42 for sqn comms and A40 and A41 for comms to inf.

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TELEPHONES AND SWITCHBOARDS

TELEPHONE

Serial	Type	Detail
1	F	The normal mil desk telephone.
2	L	The lineman's telephone.
3	J	Standard field telephone. Tropicalised improved version of telephone L.
4	H	Sound powered, NO btys.
5	Future Development Telephone Hand Sound Powered Number 1	Sound powered, NO btys. Under consideration for gen adoption within the inf bn. Range much greater than telephone H.
6	Gen Purpose Telephone Handset	To replace all existing types except telephone F.

SWITCHBOARDS

Serial	Level Used	Present Eqpt		Future Eqpt
		Switchboard	Telephone	Switchboard
1	Bn/regt	10 line	J, F	
2	Bde gp	40 line F and F and 10 line magneto	J, F	40/160
3	Div	80 line	J, F	40/160 line x 2
4	Corps	120 line	J, F	40/160 line x 3
5	Army gp	120 line	F	(a) Trunk CB20 x 4 (b) Satellite 40/160 x 3

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FIELD CABLES

(TIMES OF CONST ARE FOR GOOD CONDITIONS, IN OPEN COUNTRY, IN DAYLIGHT)

Serial	Type of Cable	Speech Range in Miles (unloaded)	Det for Laying	Speed of Const	Remarks
1	Cable, electric, D10 (26 lbs/½ mile coil)	10	(a) 1 or 2 men on foot. (b) 8 linemen, 2 x ¼-ton and tlrs, 1 x 1-ton truck.	2 mph 4 mph	Standard field cable replacing D3, D8 and aslt cables at all levels. Wound in dispenser coils like a ball of string. This allows fast laying and laying by ac or hel.
2	Cable, electric, field quad	20	10-20 linemen 1 x ¼-ton and tlr 2 x 1-ton trucks 1 x 3-ton truck (This det is for poled route and can be reduced when cable is laid on the ground)	Poled 3/4 mph Ground 2 mph	Used for RR tails and heavier types of routes in rear of div. Obsolescent.
3	Cable, electric, carrier quad, Type P Mark III (140 lbs/¼ mile drum)	29	Similar to Serial 2		Primarily for use with multi-channel systems. Lengths are joined by couplers supplied with each cable coil. Loading pots to give increased range can be inserted between couplers.
4	Future Developments Cable, electric, light weight, quad (55 lbs/¼ mile coil)	19	Similar to Serial 2		Replaces cable at Serial 2 in its gen purposes employment and as RR tails. Lighter than Serial 2.
5	Cable, electric, 10 pair (plastic) (150 lbs/⅛ mile drum)	24	Similar to Serial 2		Cable for field use, primarily for local distr and inter-connection of echelons of a HQ.

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Task Gp	Serial Number	Task	Planning Times	Additional Eqpt, Tpt etc	Remarks
Roads and tracks	1	Checking unmetalled road for mines	Sect - 1 mph by day (leaving fair risk)		1. In reality, ests of the time, labour and resources for engr tasks are made as a result of detailed recce by engr offrs. They vary greatly for every task. These variations are particularly great in such tasks as breaching mine-fields and clearing airstrips, where much depends on the type of ground, type of mine and standard of trg. 2. Detailed recce is seldom possible in Staff College exercises. It will therefore be assumed that these planning times are the ests given by the CRE, field sqn comd etc unless stated otherwise. 3. These tables may also be used in assessing what engr tps should be placed under comd or in sp.
	2	Providing wheeled routes across country (level ground) with temporary surface	Tp - ½ mile per 24 hrs	Angledozer, grader, 8 tippers (carrying pre-fabricated surfacing, or rubble).	
	3	Preparing tank tracks	Sect - 3 miles per 24 hrs	Angledozer	
	4	Filling in craters	Sect - 2 hrs	Angledozer	
Gap crossings (up to 150 ft wide)	5	Ford or culvert - 20 ft gap	Sect - 2 hrs	Medium wheeled tractor - 2 tippers	
	6	- 60 ft gap	Sect - 10 hrs	" " - 6 tippers	
	7	Bailey br Cl 80 70 ft	Two tps - 7 hrs (day) - 12 hrs (night)	17 loads br eqpt, 6 tippers (for approaches).	
	8	Heavy girder br Cl 100 150 ft	Tp - 12 hrs (day) - 18 hrs (night)	39 loads br eqpt, 6 tippers, 2 cranes	
River crossing	9	Cl 80 heavy ferry on 400 ft river	One field tp: 1½ hrs by day, 2 hrs by night. Crew of 12 up to 12 loads/hr by day to op up to 10 loads/hr by night.	Heavy ferry carried on 4 x 10-ton and special tlrs and 2 x 3-ton vehs. Angledozer and crane required for const and launching. Typical load - one tank or six wheeled vehs.	
	10	Cl 30 light floating br over 400 ft river	One field sqn 3-4 hrs by day, 4-6 hrs by night	Br carried on 18 x 3-ton trucks and special tlrs. Two br cranes and two tugs required for assy.	
	11	Cl 80 heavy floating br over 400 ft river	One field sqn 3-5 hrs by day, or 5-7 hrs by night	Br carried on 15 x 10-ton trucks and special tlrs. Two br cranes and two tugs required for assy.	
Dmls	12	Culverts, 30 ft gaps, or gps of 4 road craters	Sect - 2 hrs. Tp - 24 per 24 hrs	1 3-ton load explosives for 6 tasks.	
	13	Dml of 100 ft gap in large brs	Tp - 4 hrs (deliberate methods) Tp - 1 hr (hasty methods)	1 x 3-ton load of explosives	
Field defs	14	Assistance in digging def positions	Allow one tp per bde gp	Excavator, medium wheeled tractor, and compressor	
	15	Digging in tanks	No engr tps - 10 tanks per 24 hrs per eqpt	Medium wheeled tractor	
Mine-laying	16	Mech minelayer - hedged farmland	Tp - 2,000 anti-tank mines/24 hrs	Angledozer and minelayer. 4 x 3-ton trucks carrying mines.	
	17	open heath, etc	Tp - 4,000 " " "		
	18	Laying by hand anti-tank only	Tp - 1,000 " " "	3 x 3-ton trucks carrying mines.	
	19	anti-tank and antipers	Tp - 600 " " and 600 antipers per 24 hrs		
	20	Rooting and mining roads - Concrete Remainder	Sect - 1 mile per 24 hrs Sect - 4 miles per 24 hrs	Size I angledozer, rooter, 2 x 3-ton trucks (mines).	
	21	Booby trapping and nuisance mining	Tp - 15 houses, road junctions etc per 24 hrs		
Breaching mine-fields	22	By hand 8 yd lane 100 yds deep/400 yds deep	Tp - 3-6 hrs/three tps 6-12 hrs		
	23	Flails 8 yd lane 400 yds deep	Flail tp - ½ hr	Actual speed of the flail is about 100 yds in 2 mins.	

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PREP AND MARKING OF LANDING STRIPS/LZ

HELS

Dimensions

1. The LZ must be of sufficient area to accommodate the undercarriage and allow clearance for the main and tail rotors.

2. For single rotor hels a clear area of 30 yds diameter is required (60 yds for night op).

3. A further area 10 yds wide (20 yds for night op) and cleared to 2 ft above the ground all round the clear area will also normally be prep. The whole LZ will thus be 50 yds in diameter (100 yds for night op).

4. No branches must overhang the LZ.

Ground

5. The ground must be level and sufficiently firm to sp the hel without sinkage. Hels cannot touch down on a gradient steeper than 7^{o} (5^{o} at night). The surface must be clear of all loose rubbish, tree stumps etc. Loose gravel, grass, ashes and eroded ground can be hazardous. Dusty or sandy areas should be avoided if possible.

6. The ground must not be cleared by burning nor must any fires be allowed near the LZ during hel ops.

Approaches

7. For normal op LZ angles of approach must not be greater than 20^{o} measured from the touchdown pt. If there are trees higher than 100 ft at the edge of the proposed LZ, an approach (or exit) lane through them will be required. For night op there must be no obstruction higher than 100 ft within 1,000 yds from the touchdown pt.

8. In emergency, with single ac lightly loaded, it may be possible to use an LZ when the approach angle is up to 45^{o}.

LZ Markings

9. LZs will be marked with the letter "H" at the best touchdown pts. This sign must be pegged securely so that it cannot blow up into the main or tail rotors. A man draped in a fluorescent panel standing at the upwind edge of an LZ makes a good emergency marker.

10. The dimensions of the "H" should be about 6 ft x 4 ft. It is best made of wood or reasonably heavy material but fluorescent panels may be used.

11. If a wooden sign is used it should be painted drab on one side and white on the other. It should be exposed only when the hel is heard approaching.

12. If, for any reason, hels should not land on the LZ the letter "H" should be replaced by a letter "X" of similar dimensions.

13. A wind indicator (smoke, grenade, flag or "T") is also required. Smoke must not obscure the approach or the LZ itself.

14. For night ops lights must be laid out in the form of an "H" and a "T". The "T" (min dimensions 12 ft x 12 ft) will be placed approx 30 ft upwind of the "H". If available, a ptbl angle-of-approach indicator should be used.

15. The selection and marking of LZs for night op must normally only be undertaken by a hel pilot or a specially trained man from the hel unit concerned.

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FIXED WING AC

Dimensions of Strip

1. The amount of usable ground needed for a landing strip will vary with the type of ac which is to op from it.

Approaches

2. The approaches should be clear of all obstruction. If trees or other obstacles are in the way and cannot be removed, add 50 yds length to the strip for every 20 ft of height of the obstacle.

Surface

3. Recce of the surface should be made on foot and the following conditions should be met:-

a. The ground should be reasonably level. Slight undulation is acceptable.

b. The max slopes acceptable are 1 in 50 laterally and 1 in 30 lengthways.

c. The surface must be free of potholes, large stones and sharp ridges.

d. The ground must be firm. Meadowland or mown hayfields are usually the best.

4. A surface is generally satisfactory if a ¼-ton truck can be driven over it at 35 mph without undue discomfort.

Marking the Strip

5. AAC units in the field will normally op from strips with the min of marking in order to help concealment of the strips. An easily removable "T" marking wind direction and touchdown should normally be sufficient.

6. Wind direction should be indicated by either:-

a. A "T" in white with the bar of the "T" facing the direction from which the wind is blowing. The "T" should be sited at the downwind end of the strip and to the left*,

or b. a smoke grenade in the same position as the "T" described above but placed so that the smoke does not obscure the approach line,

or c. a windsock or flag positioned at the downwind end of the strip and well clear to the left.

Emergency Lighting for Night Landings

7. If it is necessary for an ac to land on a strip at night the following lighting methods are acceptable:-

a. Two landrovers, 30 yds apart, with headlamp beams intersecting at the required touchdown pt. The vehs should face upwind away from the line of approach. A clearly visible light must also be positioned at the far end of the strip to prevent overshooting,

or b. two lines of hurricane lamps or torches, 30 yds apart. Light to be at least every 50 yds along the length of the strip.

8. Wind direction will be indicated by lights laid out in the form of a "T".*

*By day, wind direction can be indicated by a "T" of men each holding a white handkerchief. At night, an illuminated "T" can be produced by men, each with a vertically held electric torch.

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SIZE OF DZs FOR MEN AND EQPT

Width

1. As a gen rule a standard DZ for men or eqpt is 800 yds wide. A panel DZ, ie where an ac drops eqpt to the side of a DZ on which men have been dropped, is usually about 1,200-1,400 yds wide.

Length

2. Hastings

Two simultaneous sticks of 15.

15 x 60 + 400 = 1,300 yds.

3. Beverley with 60 parachutists

40 men in lower freight compartment, 20 men in boom. The latter come down to lower compartment for drop. Two simultaneous sticks of 30.

30 x 60 + 400 = 2,200 yds.

4. Beverley in heavy drop role only

Undershoot (200 yds) + heavy drop 2 platforms (800 yds) + throw fwd second platform (300 yds) + overshoot (200 yds) = 1,500 yds.

5. Beverley in mixed heavy drop and parachutist role

Depending on individual ac and platform weights and centre of gravity factors, up to 20 parachutists can be dropped from the boom after 2 medium stressed platforms or 3 x 8,000 lb supply platforms. In practice dropping of mixed loads in one run is limited to ops, owing to the danger of tps landing on loads already on the DZ, or being hit by loads from following ac. Mixed pers and heavy drop require a DZ of 2,400 yds.

6. C130 with 64 parachutists

Two simultaneous sticks of 32.

32 x 72 + 400 = 2,704 yds.

American ac have a standard dropping speed of 130 knots. Approx 72 yds per man is therefore allowed when calculating stick lengths.

7. C130 and C119 in mixed heavy drop and para roles

Parachutists can drop in single sticks over the ac sill after platforms or 1-ton containers have been dropped.

Stores

8. DZs should be 1,000 x 100 yds, if possible in the direction of the prevailing wind. Much less may have to be accepted in difficult country.

9. There should be no obstacle to the approach of ac at dropping height (400-800 ft) within one to three, preferably three, miles of the DZ at either end.

10. The surface of the DZ and the ground on the downwind side of it should be as clear as possible to facilitate the rec of stores.

11. The DZ should be near a prominent landmark or otherwise easily loc from the air.

12. It should be free from enemy obsn and not exposed to enemy fire. There should be no danger to ac from our own arty or mortars. This is a real problem in the jungle where the lack of open spaces will often mean gun areas and DZs having to share the same clearing.

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MOV PLANNING DATA

DEFINITIONS

1. Average Speed. The average number of miles travelled per hr calculated over the whole journey, excl specifically ordered halts. Standard figures for planning purposes are:-

	Day	Night
Columns excl tanks, tptrs, etc		
Good roads	24 mph	12 mph
Twisty and hilly roads with good surface	21 mph	10 mph
Bad roads	18 mph	9 mph
Columns incl all types of vehs		
Good roads	12 mph	9 mph
Bad roads	7 mph	6 mph

2. Time Past a Pt (TPP). The time required by a serial to pass a given pt.

3. Extra Time Allowance. Within serials extra time will be allowed, calculated at one min per 25 vehs.

4. Gaps. Between serials no standard times are prescribed. Time between serials will be determined and allocated by the staffs responsible for mov and are defined as gaps.

5. Running Time. The time taken by one veh to travel the total distance.

6. Time Taken to Complete a Move. This comprises:-

   a. Running time.

   b. Total TPP (serial TPPs plus any gaps ordered).

   c. Time spent on specifically ordered halts.

7. Flow. The calculated number of vehs which pass a given pt in an hr at a given speed and density. This should never exceed capacity.

8. Capacity. The number of vehs which can physically pass a given pt in an hr. This can only be determined by obsn.

9. Density. Traffic density is the average number of vehs that occupy one mile of road space; it is expressed as vehs per mile (vpm).

FORMULA

10. $$\text{TPP (in mins)} = \frac{\text{Number of vehs} \times 60}{\text{Density (vpm)} \times \text{average speed (mph)}} + \frac{\text{Number of vehs}}{25}$$

11. $$\text{Running Time} = \frac{\text{Distance (miles)}}{\text{Average speed (mph)}}$$

12. Flow (vehs per hr) = average speed (mph) x density (vpm).

13. $$\text{Length of Column (in miles)} = \frac{\text{TPP (in mins)} \times \text{average speed (mph)}}{60}$$

14. Instead of using the formula the same results can be obtained by using the graph given in Annex R to Chapter 5 of SD in the Field.

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VEH LOAD CLS

FOR STAFF COLLEGE USE ONLY

A Vehs		C Vehs	
Armd car - Saladin	10	Coles crane	26
APC - Saracen	10	Excavator truck mounted ½ yd (shovel in travelling position)	24
Scout car - Ferret	4	Grader (average)	11
SP - 155-mm	28	Tractor crawler size 4	10
Tank - Centurion	56	Angledozer size 2	18
Tank - Conqueror	70	Light wheeled tractor	8
Tank - Chieftain	50	Medium and heavy wheeled tractor	20
ARV - Centurion	50	Tptr RE plant 30-ton (laden)	58
ARV - Conqueror	64		
AVRE - Centurion	58		
Br layer - Centurion	62		
Tracked carrier FV 430 series	16		
Hornet	6		
B Vehs		**Arty and Weapons**	
Truck ¼-ton GS	2	120-mm (Mobat)	1
Truck ¼-ton GS ½-ton tlr	3	105-mm pack how	7
Truck 1-ton GS	4	25-pr	10
Truck 1-ton armd	6	8-in how	30
Truck 3-ton GS	9	L70 gun	15
Truck 3-ton tipping	9	FCE7	11
Truck 10-ton GS	21	Radar AA Number 4 Mark 7	28
Rec veh medium 6 x 6	15	SAGW Number 1 (Thunderbird)	19
Amb car	6	Radar GS Number 9 Mark 1	10
Saloon car	2	Radar Field Arty Number 8 Mark 1	10
		762-mm RL	24
		Corporal train (erector is heaviest veh)	34
Tptrs		(Note. Cl of towed guns and eqpt incls towing vehs.)	
Tractor and tlr unladen	45		
Carrying Centurion	120		
Carrying Conqueror	147		

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SOME DEFINITIONS OF ADMIN TERMS

Serial	Term	Definition
1	Admin	The function of comd which deals with org, discipline and well being of men, and the mov and maint of men and materials. It is divided into: a. Gen Admin. The planning and gen application of maj admin policy. b. Local Admin. The day-to-day admin of units and formations in accord with the policy of force HQ.
2	Admin Areas	Areas in which are loc admin units and echelons. Although tpt may be temporarily off loaded, an admin area differs from a MA in that the former does not normally hold stocks on the ground in excess of second line res.
3	Adv Base	At times an adv base may be estb in a theatre of war when it is impracticable to maint the armed forces operating in the theatre directly from the main base. The HQ controlling the main base will often arrange for logistic requirements to be met from sources outside the theatre direct to the adv base. An adv base will require some of the facilities needed in a main base.
4	Air Mov	The routine mov of complete units, drafts and individuals. It may also incl bulk freight mov but NOT where this falls under the heading of air maint.
5	Air Maint	The maint of an army in the field by air.
6	Combat Res	Stocks of essential items held on the ground in the corps area, normally within reach of second line tpt and for use only in an emergency.
7	CommZ	The rear part of the theatre of ops (behind the CZ) which contains the L of C, estbs for supply and evac, and other agencies required for the immediate sp and maint of the field force.
8	DPs	The locs at which unit tpt takes delivery of each commodity, eg APs, sup Ps etc.
9	Logistics	The science of planning and carrying out the mov and maint of forces.
10	L of C	All routes, land, water and air, which connect an operating mil force with its sp areas, and along which rfts and materials move.
11	Maint	All supply, repair and pers replacement action taken to keep a theatre or force in a condition to carry out its mission.
12	Daily Maint	The day-to-day supply of items which are in constant demand by forces in action, the routine evac of cas and rec and repair of eqpt.
13	MAs	Areas in which res are held on the ground for the maint of the armed forces in the field and to meet any emergency. For convenience, or by nature of their work, other admin units may be loc in or near these MAs.
14	Main Base	A large area containing the complex org which gathers together, holds and issues the men and material needed to maint the activities of armed forces engaged in war.

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SOME DEFINITIONS OF ADMIN TERMS (CONTINUED)

Serial	Term	Definition
15	Operating Stocks	Stocks required for day-to-day maint to avoid breaching the res stocks for purposes other than those for which they are held. Operating stocks must cover the interval between the periodic arrival of consignments into the theatre and also the time taken to distribute them within the theatre. This time must incl that required for receipt and sorting in stores holding units and a reasonable margin for delays in arrival. Operating stocks are expressed in terms of days consumption for the force.
16	Repair Pools	Pools of eqpt such as vehs, guns and radios which are provided to allow immediate replacement of unsvc but repairable eqpt evac to REME wksps. Res and operating stocks are not intended to cover these requirements. Repair pools are expressed in percentages of total unit holding of eqpt.
17	Res Stocks	The quantity of stocks required to be held to ensure against emergency, unforeseen increases in consumption and expenditure, delays in production and delays or losses in transit. Res are expressed in terms of number of days consumption for the force.
18	RP	The loc at which is held a limited tonnage of vital commodities (ammo, POL, supplies and fast moving med stores) and which is sited within range of second line tpt to permit daily replenishment.
19	Sp Area	Those areas which contain sources of manpower, industrial potential, food and raw materials. Sp areas of such importance that they are essential to our war effort are known as "main sp areas". The UK, Canada, Australia are examples from the 1939-45 war.
20	Theatre Stocks	The total of items not in present use in the theatre. They are the sum of res stocks, operating stocks and repair pools.
21	Tpt - First Line	Unit tpt, the admin echelons of which take over ammo, POL, supplies and other stores from second line tpt at DPs.
22	Tpt - Second Line	RASC MT coys allotted for the maint of fighting formations and units in the fwd areas. It is divided into two categories:- a. Basic Second Line Tpt. RASC MT coys organic to armd, inf and para bde gps. b. Supplementary Second Line Tpt. RASC MT coys allotted to corps for the maint of corps armd and arty units, and for supplementing the basic second line tpt of armd bde gps when actively engaged.
23	Tpt - Force	A pool of RASC GT coys operating under the executive con of commZ HQ. Some of this tpt may be sub-allotted to corps for specific tasks.
24	Tpt - Specialist	RASC MT coys allotted as required as force tps. They are designed to carry out a particular role, eg tank tptr coys, amphibian coys, br coys, and may be sub-allotted to corps for specific tasks.

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ADMIN UNITS IN THE COMMZ

Note. These pages list the types of units of the main admin services which may be found in the commZ. The list is a formidable one, but it is most unlikely that all these units will be required in a theatre of war. The size and shape of the admin sp in a theatre of war must be tailored to the requirements of the force, taking into account the type and likely duration of ops and local resources available.

Service	Unit	Remarks
(a)	(b)	(c)
Engr	Field and Wks Units	
	Corps engr regt	Normally only to be found in the commZ during the early stages of an op.
	Wks sect	
	Specialist teams RE	Specialist teams RE may be one of the following:- Airfield and Road Const and Recce, Bulk Petroleum Project, Power Station Repair and Op.
	BD sqn	
	Tn Units	
	Railway regt	)
	Port regt	) Frequently det sqns or even tps of
	Inland water tpt regt	) these regts will be incl in the ORBAT
	MC regt.	) of a force.
	Resources Units	
	Wksp and park sqn	
	Stores sqn	
	Specialist teams RE	Engr Procurement or Well Boring.
	Svy Units	
	Field svy sqn	
	Topographical sqn	
	Postal Unit	
	Courier and postal unit	
ST	Tpt Units	
	HQ tpt column	Can comd up to 4 coys.
	HQ MT coy	Comds 2-4 pls.
	Tank tptr coy	) Contain 2-4 pls, each of 16 task
	Amphibian coy	) vehs.
	Tipper coy	)
	Petrol tpt coy	) Contain 2-4 pls, each of 20 task vehs.
	Water truck coy	) The lift depends on type of veh.
	Motor amb coy	)
	Car coy	Special estb related to HQ sp.
	GW coy	) Special estb related to the eqpt to
	Br coy	) be carried.

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ADMIN UNITS IN THE COMMZ (CONTINUED)

Service	Unit	Remarks
(a)	(b)	(c)
ST (continued)	GT coy	Contains 2-4 pls, each of 20 task vehs. Can be 3-ton or 10-ton vehs or a mixture of both.
	Pack tpt coy	Contains 2-4 tps each of 72 animals.
	HQ water tpt gp	Comds 2-6 water tpt units.
	Water tpt coy	Normally contains 3 flotillas.
	Amb launch flotilla	)
	Boat stores depot	)
	Fast launch coy	)
	Harbour launch coy	) Normally grouped as geographically
	Mil oil barge coy	) most convenient under HQ water tpt gp.
	Gen service launch coy	)
	Army fire boat crew	)
	LCT sqn	)
	PTF launch coy	Contains 3 flotillas.
	Air Supply Units	
	HQ AASO	)
	Air supply con sects	) Allotted as required.
	Air despatch coy	)
	Supply Units	
	HQ supply coy	Comds 2-5 supply, field bakery, field butchery or cold storage depot pls.
	Supply pl	Issues in detail to 9,000 men.
	HQ field bakery coy	Can comd 3 field bakery pls and one field bakery maint pl.
	Field bakery pl	Can bake 10,000 lbs of bread in 8 hrs.
	Field bakery maint pl	Provides the mob eqpt for three field bakery pls.
	HQ cold storage depot coy	Comds up to 5 cold storage depot pls.
	Cold storage depot pl	One per 30,000 men in the force.
	Field butchery pl	One per 12,000 men for whom meat has to be slaughtered.
	Supply pl	A basic unit in the PTF.
	POL Units	
	HQ petroleum gp	Cons 3-5 petroleum coys.
	HQ petroleum coy	Comds 3-5 petroleum pls.
	Petroleum storage pl	Can hold 20,000 tons of POL in 1,200 ton tanks, with daily issues and receipts totalling 3,000 tons. If smaller tanks are available and have to be used to provide better dispersion or quick assy, it will not be able to hold as much.

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ADMIN UNITS IN THE COMMZ (CONTINUED)

Service	Unit	Remarks
(a)	(b)	(c)
ST (continued)	Petroleum pl	Can issue to 120 vehs per hr at each of 6 refuelling pts or pack 135 tons from bulk daily or hold 9,000 tons of packed POL, with daily issues and receipts totalling 1,500 tons.
	Petroleum maint pl	One to every 3 petroleum pls op can fillers.
	Petroleum pipeline pl	One for every 3 booster stations on single or double line. On level ground this gives 24 miles of 4 inch or 45 miles of 6 inch pipe. On hilly ground it gives less. Daily throughout (16 hrs pumping) in a single 4 inch pipe will be about 680 tons and in a single 6 inch pipe about 1,300 tons.
	Mob petroleum laboratory	Ops normally at pt of entry into the theatre and at pipehead.
	Petroleum eqpt pl	One per theatre, this unit holds and issues POL eqpt likely to be required by POL units and can carry out minor repairs.
	Port pl	See under supply units: this unit deals both with supplies and POL.
	Fire Fighting Units	
	Army fire coy	There is likely to be one in the FMA and one in the RMA.
	Indep army fire bde	There is likely to be one in each small port or beach area.
	Fire boats	There is likely to be one in each small port or anchorage.
Med	Field amb	One per force.
	FDS	One per force.
	Field hygiene sect(s)	One per area or sub-area.
	CCS	One per force.
	Field hygiene coy	As required.
	Convalescent trg depot	As required, to provide 1% cover.
	FTT	Two per force.
	Field med coy	As required.
	Neuro surgical team	One per force.

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ADMIN UNITS IN THE COMMZ (CONTINUED)

Service	Unit	Remarks
(a)	(b)	(c)
Med (continued)	Maxillo-facial team	One per force.
	Ear, nose and throat team	One per force.
	Opthalmic team	One per force.
	Special treatment team	One per force.
	Chest surgical team	As required.
	Burns team	As required.
	Mob dental team	One per force.
	Mob pathological laboratory	One per force.
	Mob hygiene laboratory	One per force.
	Field dental laboratory	One per force.
	Field dental centre	To provide cover of one dental offr per 2,000 men.
	Malaria con coy	One per force)
	Mob malaria field laboratory	One per force) in malarious areas
	Base malaria field laboratory	One per force) only.
	Gen hospital	Provided on an agreed bed percentage of the force.
	Amb train	On a scale of 2 per corps plus 20% res.
	Hospital ship	Special allotment.
	Base med eqpt depot	One per 150,000 tps.
	Central pathology laboratory	One per force.
	Port det RAMC	One per PTF.
	Med pl for motor amb coy	As required.
Ord	Stores Units	
	Fwd stores depot	) Provide MT, gen and tech stores,
	Rear stores depot	) clothing and necessaries.
	Tlr coy	Detail issues to commZ units and various emergency roles.
	Stores sects	Att to REME wksps.
	Veh Units	
	Fwd veh depot	) Provide A, B and C vehs, towed eqpts
	Rear veh depot	) and guns.
	Veh kitting pl	Provides veh kits. Att to force delivery sqns RAC.
	Ammo Units	
	Fwd ammo depot	)
	Rear ammo depot	) Provide all natures of ammo.
	GW coy	Provides GMs, specialist stores, spares and vehs.
	GM pl	Stores, assembles, tests and issues complete GMs.

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ADMIN UNITS IN THE COMMZ (CONTINUED)

Service	Unit	Remarks
(a)	(b)	(c)
Ord (continued)	Comp Units	
	Aslt ord coy	Provides stores, vehs and ammo in aslt maint area.
	Air Maint Units	
	Air maint pl	Packs stores and ammo for air dropping; holds cushion stocks on rear airfields and handles stores and ammo in transit.
	Heavy drop pl	Provides heavy drop platforms. Preps vehs and heavy eqpt for para dropping.
	Para heavy drop coy	One per para bde gp.
	Transit Units	
	Stores transit coy	Incl in commZ stores depots for mov of urgent stores to RPs on airfields.
	Rear transit coy	Incl in PTF for similar purpose.
	Stores transit pl	) Loc at airfields, rail and rœadheads to
	Ammo transit pl	) supervise stores and ammo in transit.
	Veh transit pl	Provides dvrs to ferry B vehs fwd to veh DPs.
	Secondary Task Units	
	Stores purchase pl	Obtains stores by local purchase.
	Laundry pl	One per hospital or stores depot handling returned clothing.
	Bath pl	One per hospital.
	Industrial gas pl	Provides oxygen, acetylene and compressed air.
	Printing pl	Loc near force HQ.
	Salvage pl	Loc in RMA.
	Subsidiary Task Units	
	Stores repair pl	Forms part of fwd stores depot.
	Ammo inspection pl	Inspects ammo stocks in fwd and rear ammo depots.
EME	CommZ wksp	One per 50 miles of MSR.
	Gen tps wksp	One per fwd area of commZ.
		One per rear area of commZ.
	Telecomm wksp	One per force.
		One per commZ sig regt.
	Med eqpt wksp	One per force.
	Eqpt assy coy	One per corps (not required for global war).

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ADMIN UNITS IN THE COMMZ (CONTINUED)

Service	Unit	Remarks
(a)	(b)	(c)
EME (continued)	Reclamation unit	One per two armd bde gps and one per three inf bde gps (not required in global war).
	Army rec coy comprising:	
	HQ	One per force.
	Heavy pl	One per armd bde gp.
		One per corps for commZ.
	Light pl	One per two inf bde gps.
		One per corps for commZ.
	Railhead evac pl	One per force and base railhead.
	Adv base wksp comprising:	
	HQ adv base wksp	One per force.)
	Wksp coy	One per two armd bde gps.) Not required for global war.
		One per four inf bde gps.)
	Port wksp	One per port.
	Base wksp	One per force in limited war (if estb).
	Beach maint wksp	)
	Beach rec pl	) As required for PTF.
	Att wksps and LADs	)
		One per certain maj units incl RASC coys.

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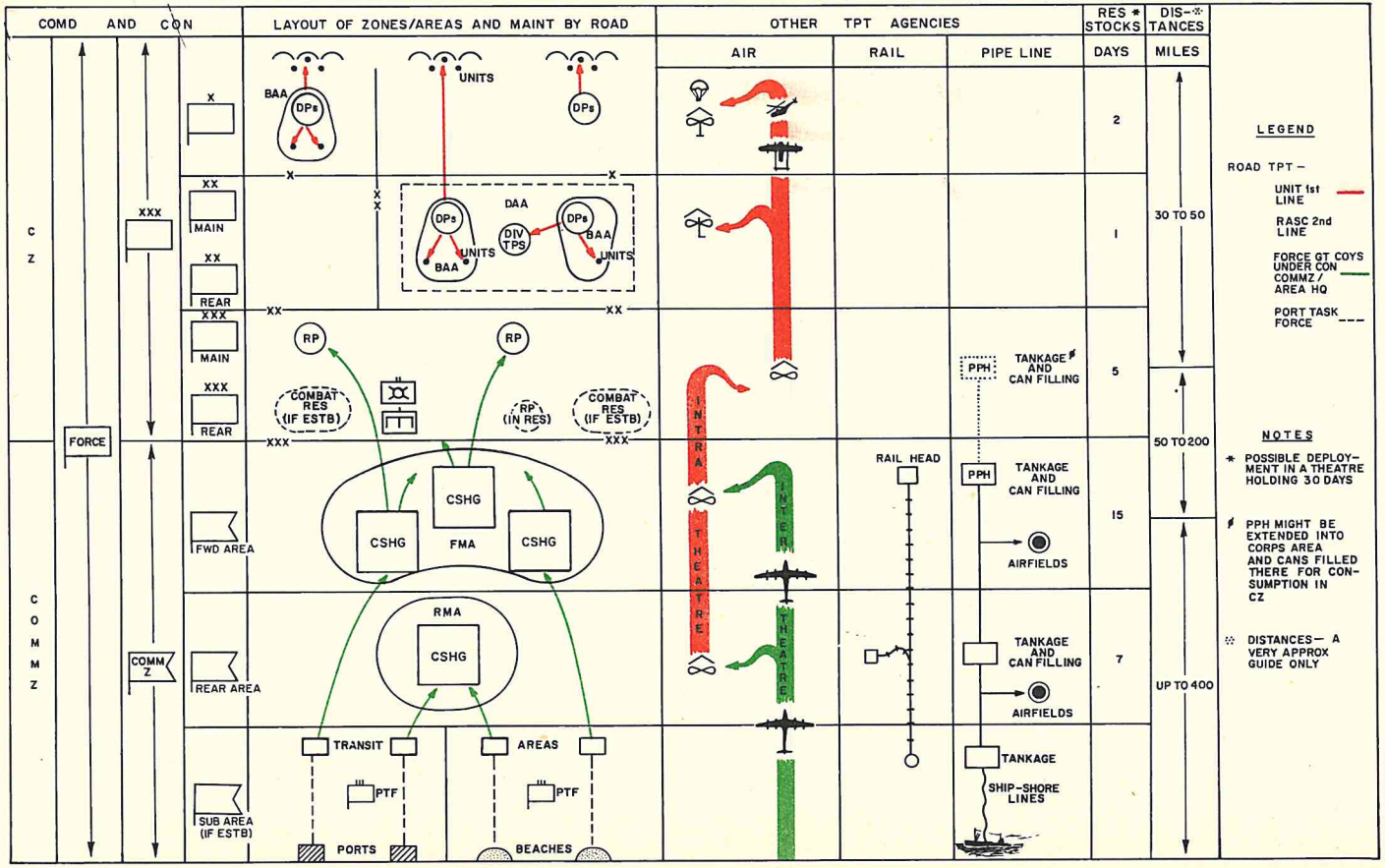
SYSTEM OF MAINT IN OVERSEAS THEATRE



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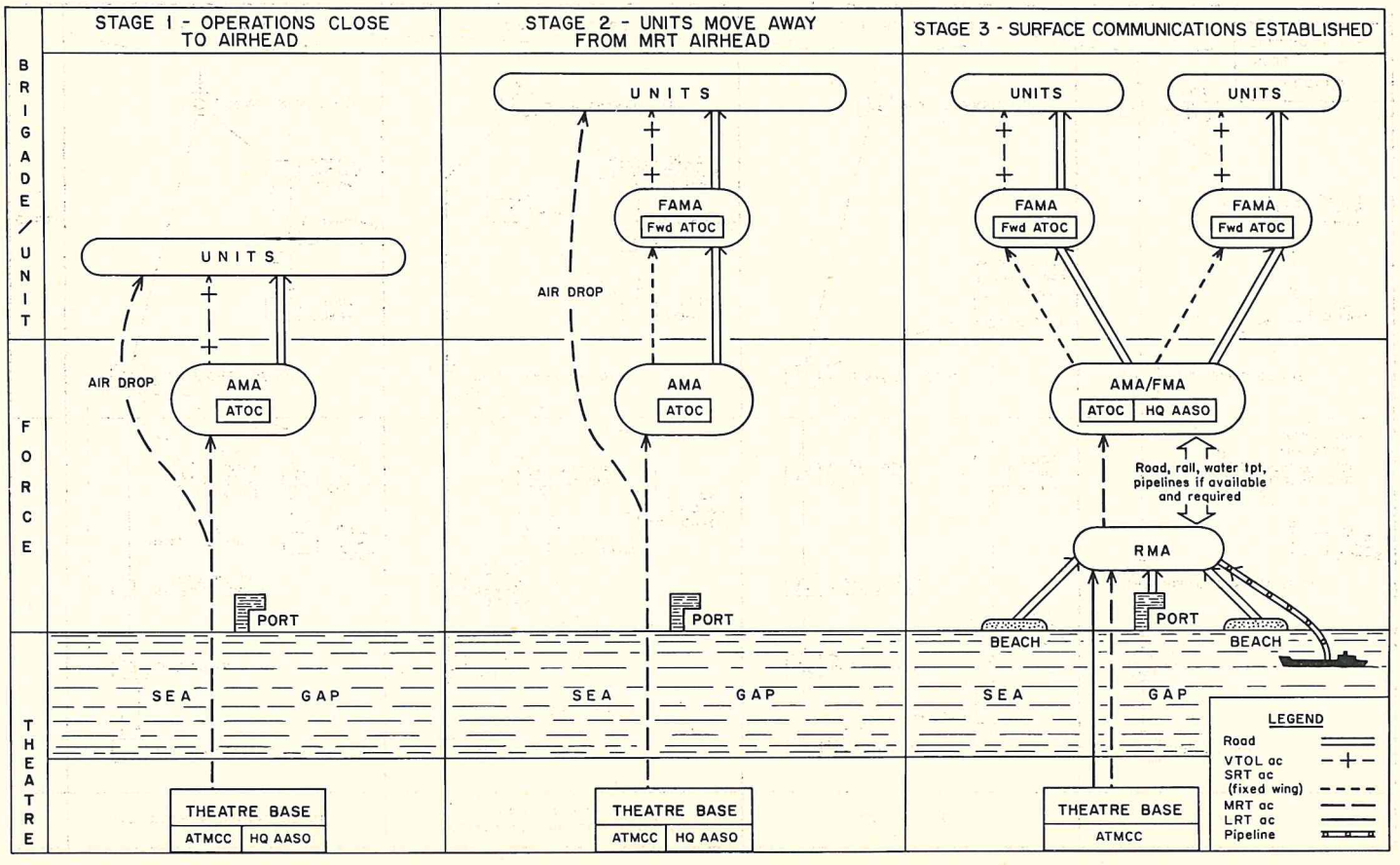

A LOGISTIC SYSTEM BASED ON AIR SUPPLY

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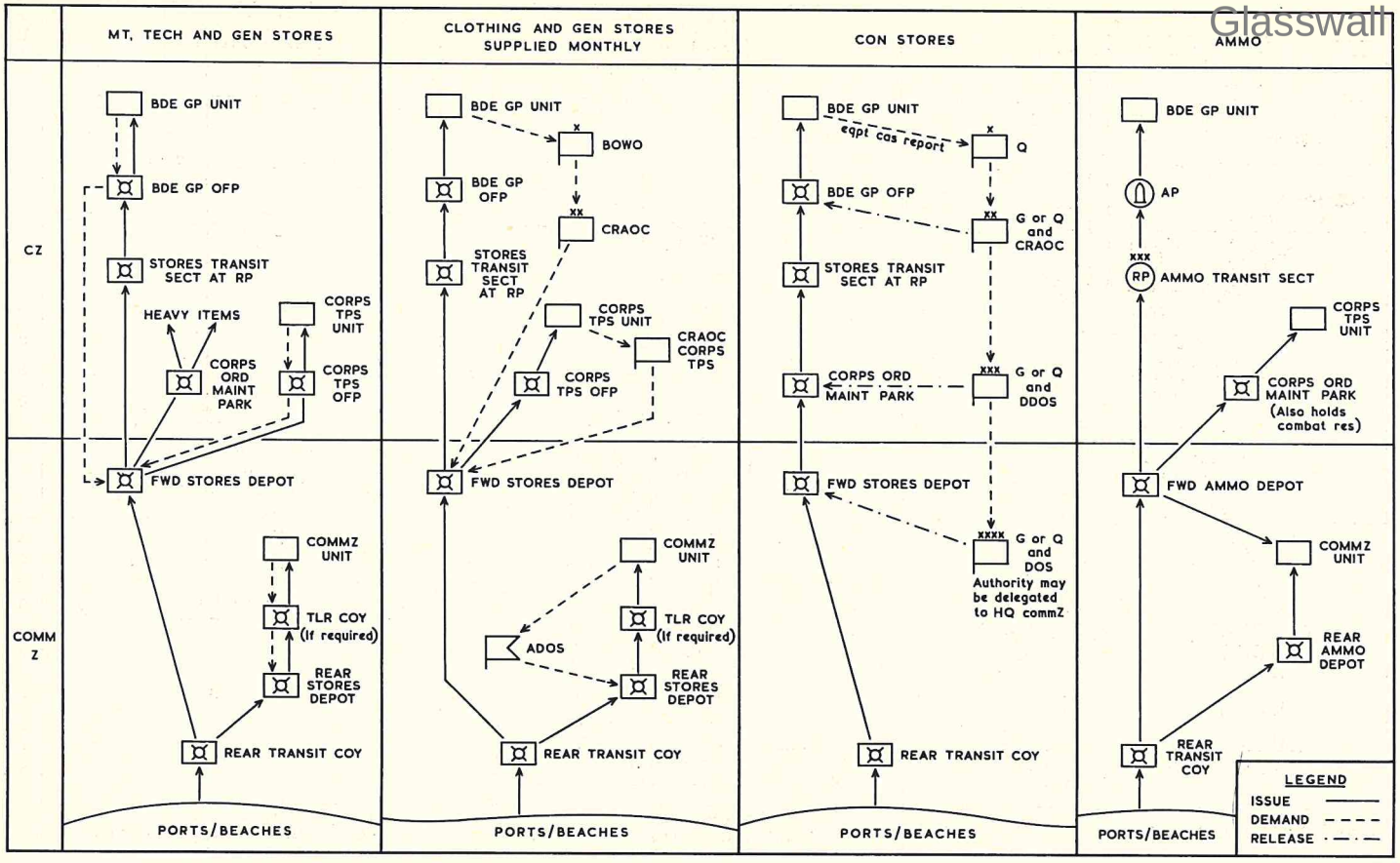
SUPPLY OF ORD STORES AND AMMO



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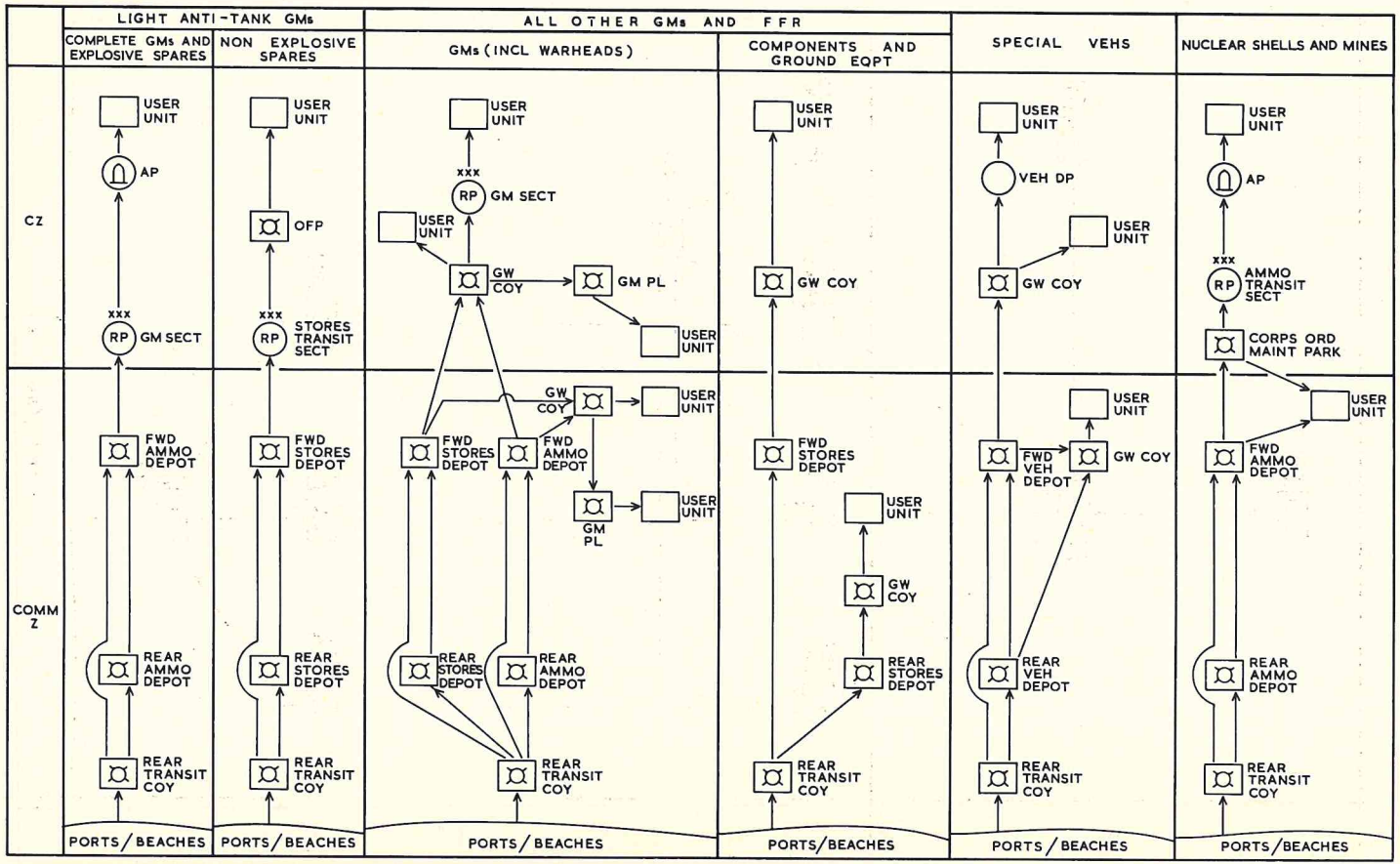
LOGISTIC SP FOR GW AND NUCLEAR AMMO



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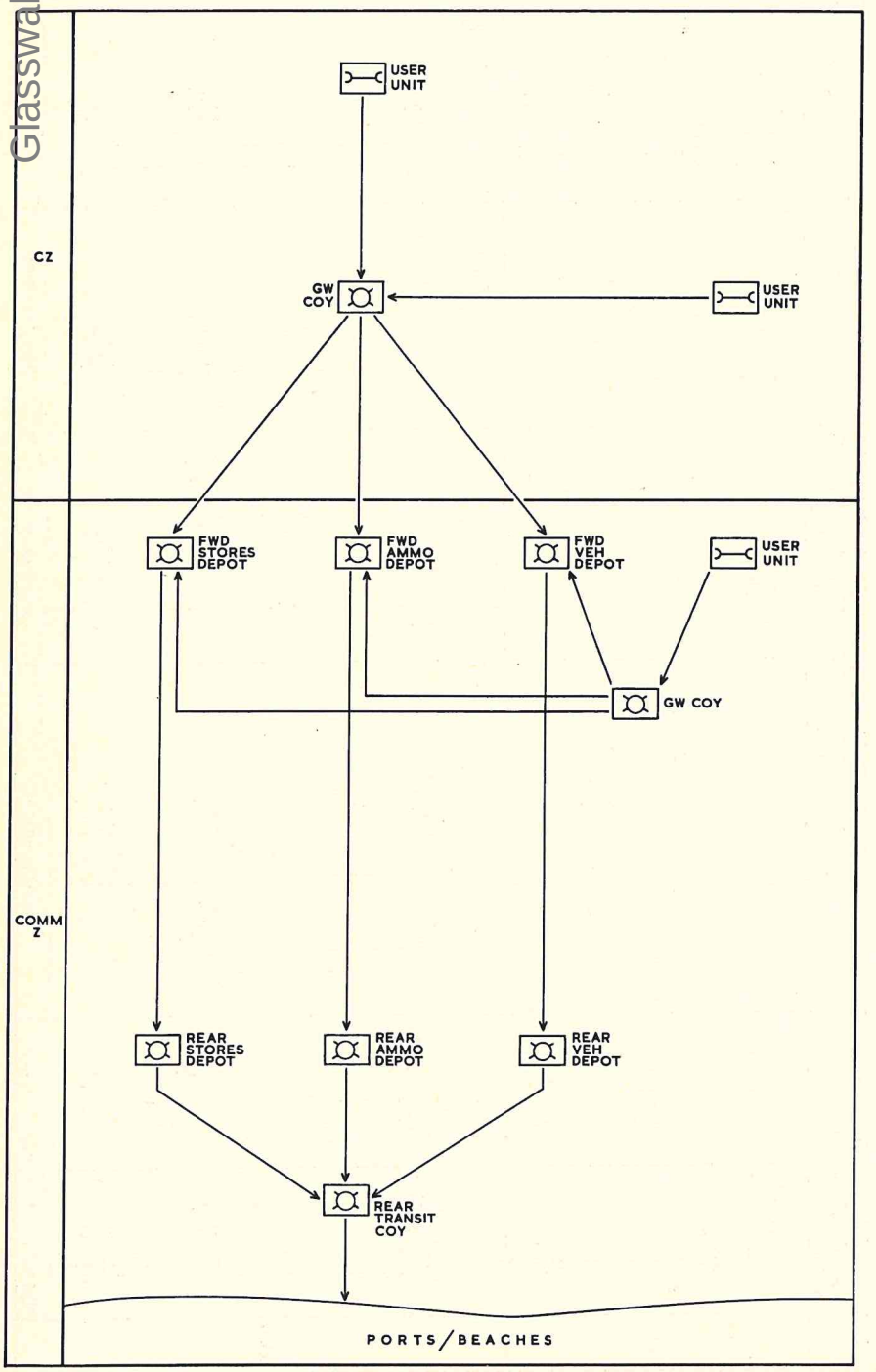
REPAIR AND EVAC OF GMs, SPECIAL VEHS AND EQPT



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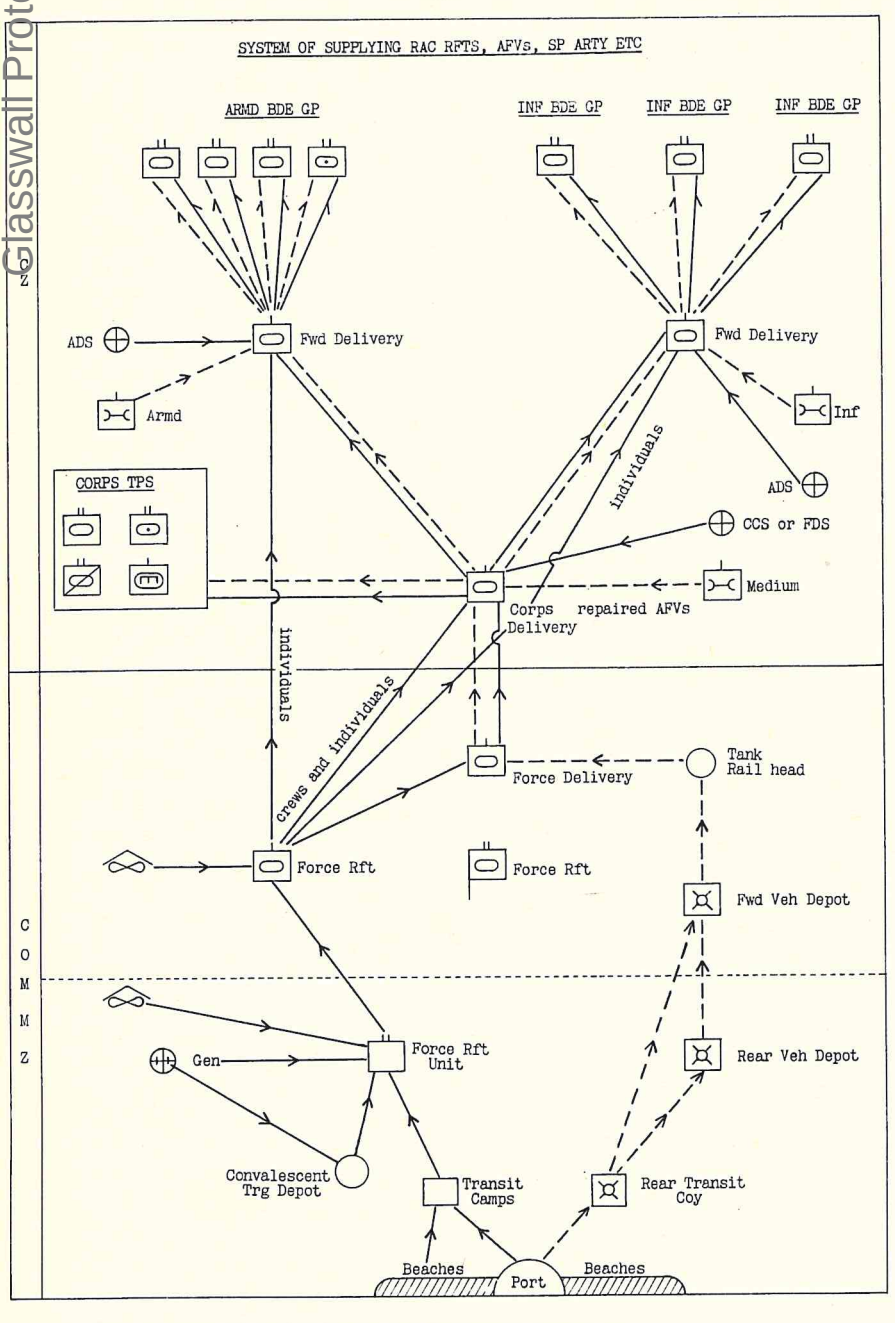

Note. APCs are not handled by the Armd Replacement Org but are delivered to inf bns by Ord.

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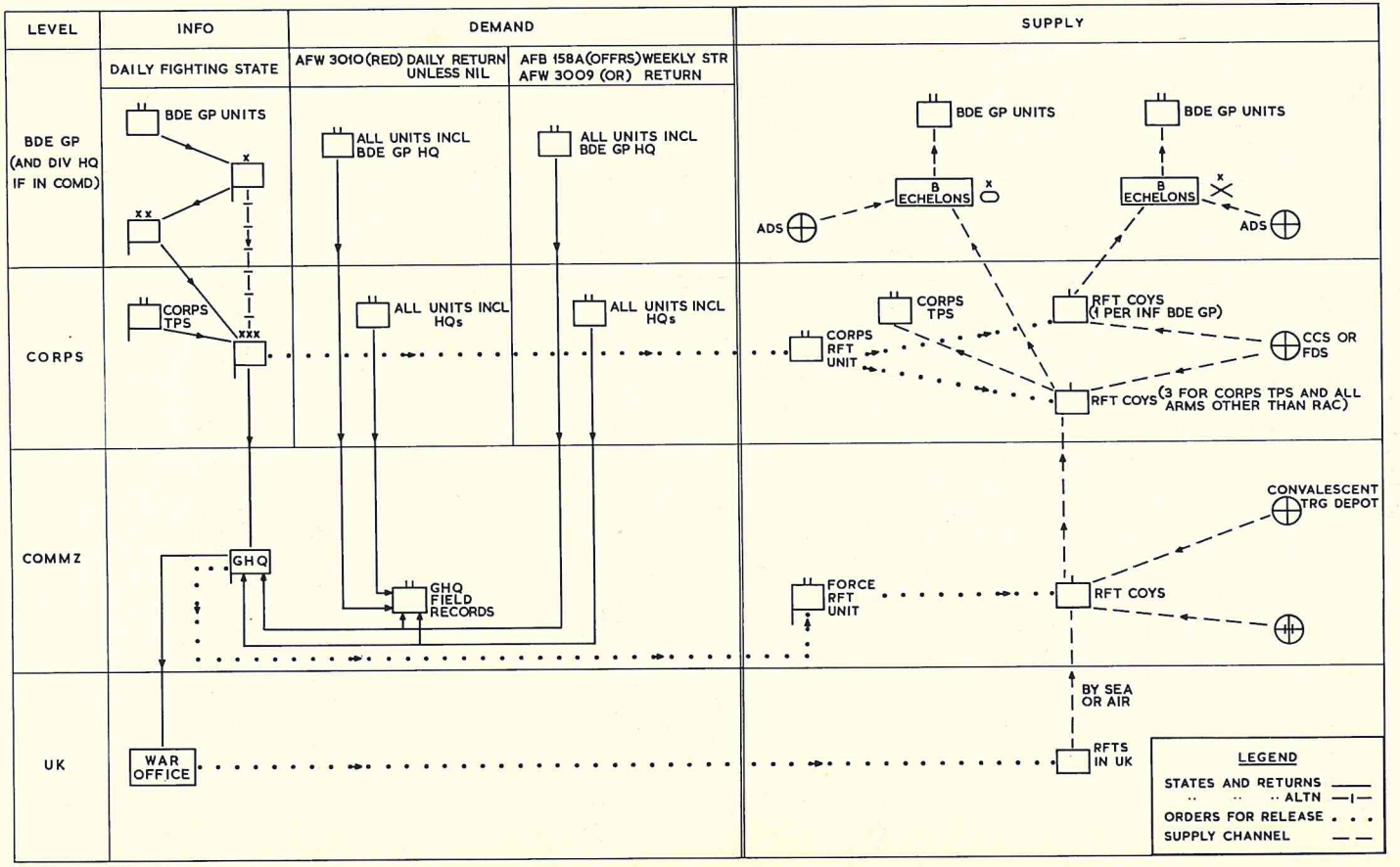
REINFORCEMENTS



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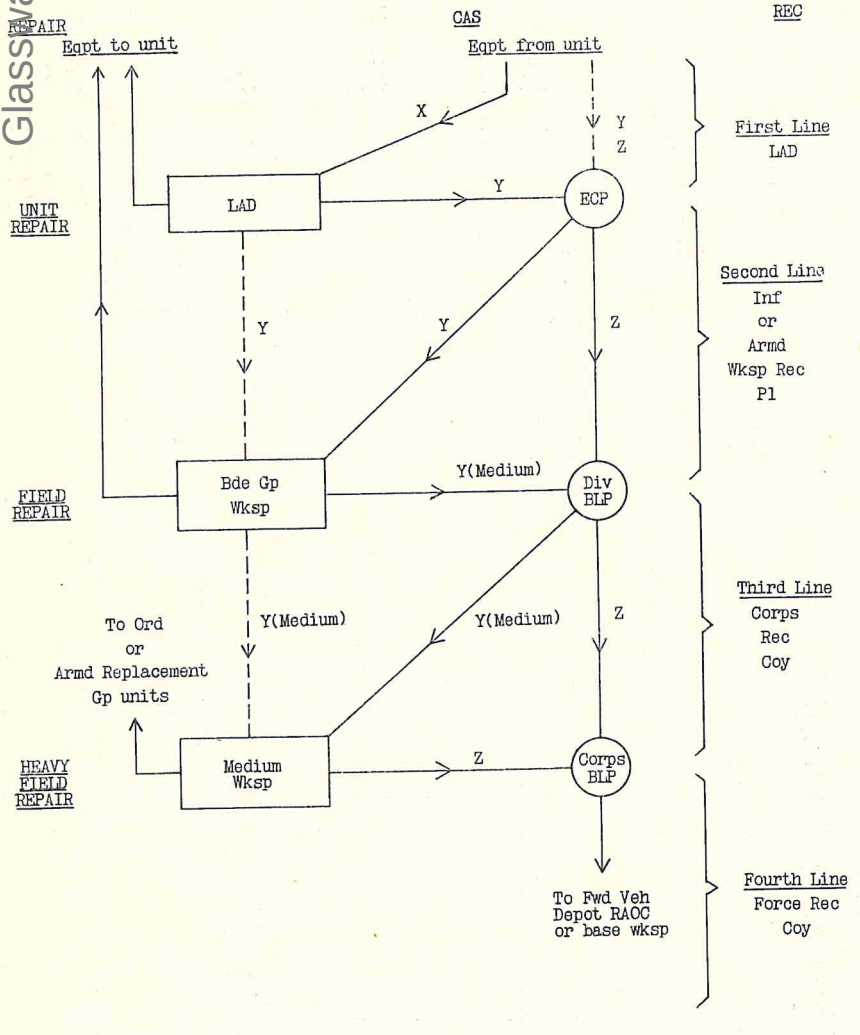
STAGES OF REPAIR AND REC OF VEHS AND SIMILAR EQPTS



Legend ------Altn route

Notes. 1. The use of the fwd REME gp is not shewn.

2. When eqpt is backloaded behind second line wksps, it is struck off unit charge and replaced.

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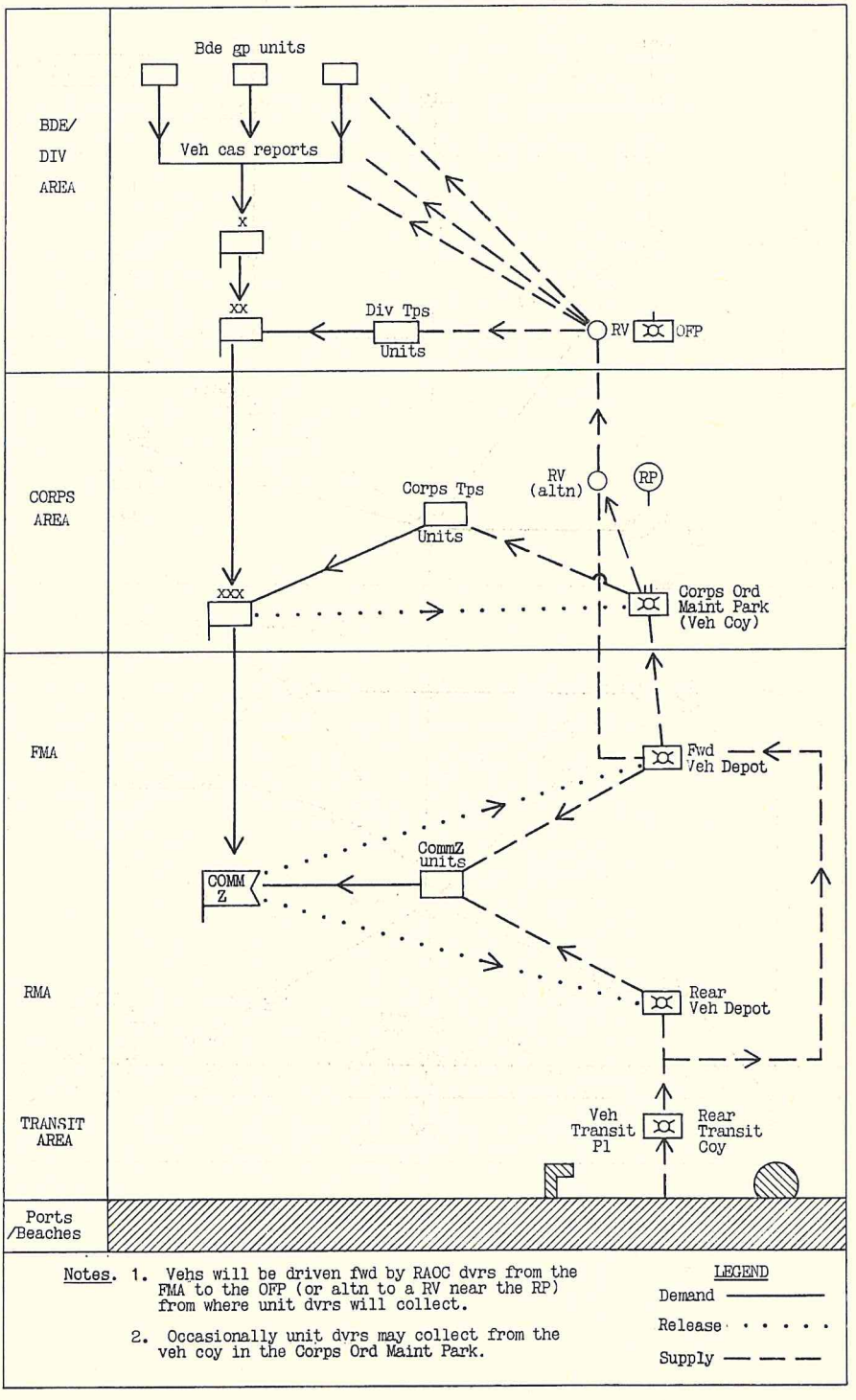
SUPPLY OF A AND B VEHS, TOWED GUNS AND EQPTS



Notes. 1. Vehs will be driven fwd by RAOC dvrs from the FMA to the OFP (or altn to a RV near the RP) from where unit dvrs will collect.

2. Occasionally unit dvrs may collect from the veh coy in the Corps Ord Maint Park.

LEGEND

Demand ———

Release · · · · ·

Supply — — —

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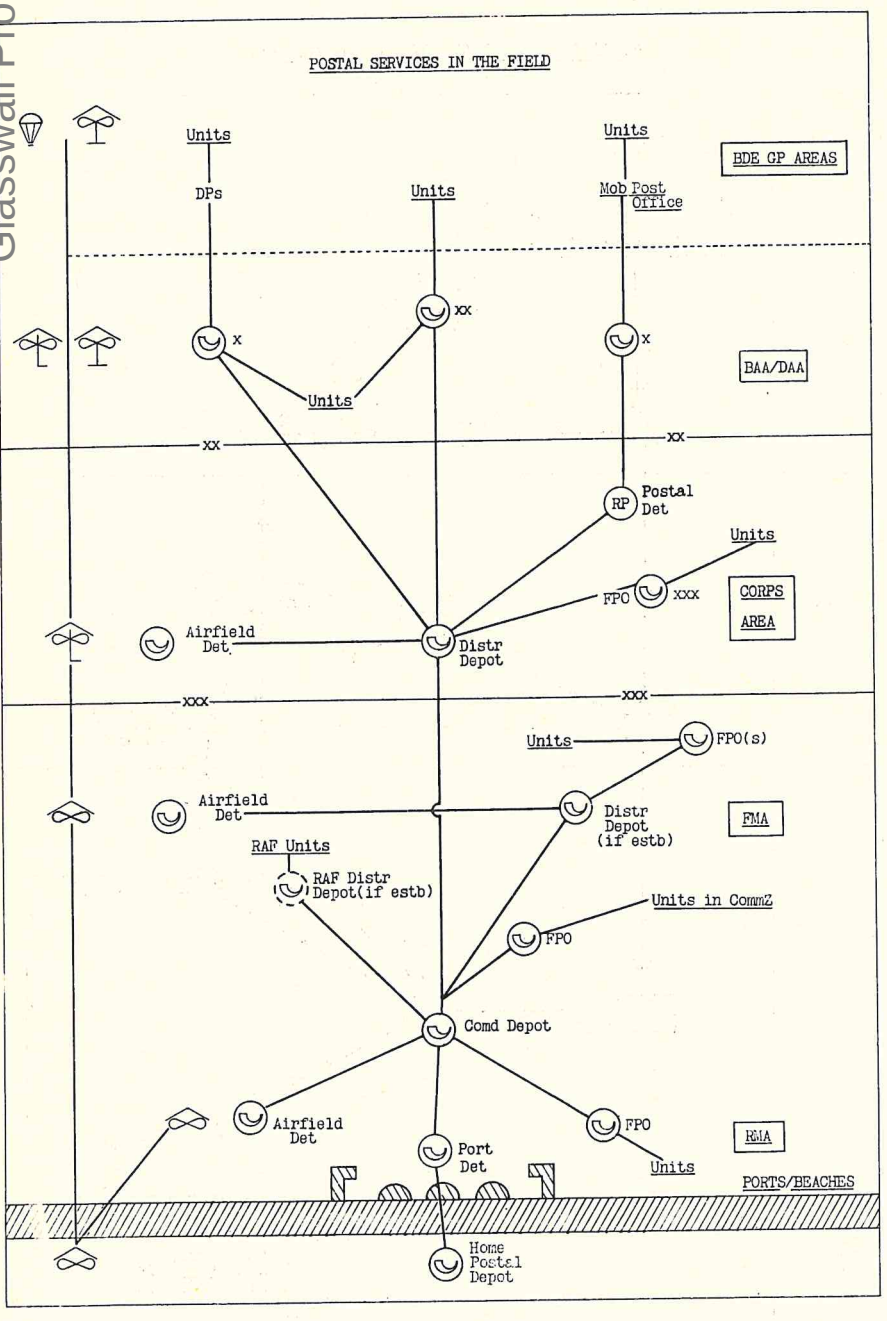

Note. The system will incl a security courier service for the transmission of classified mail as far fwd as corps HQ.

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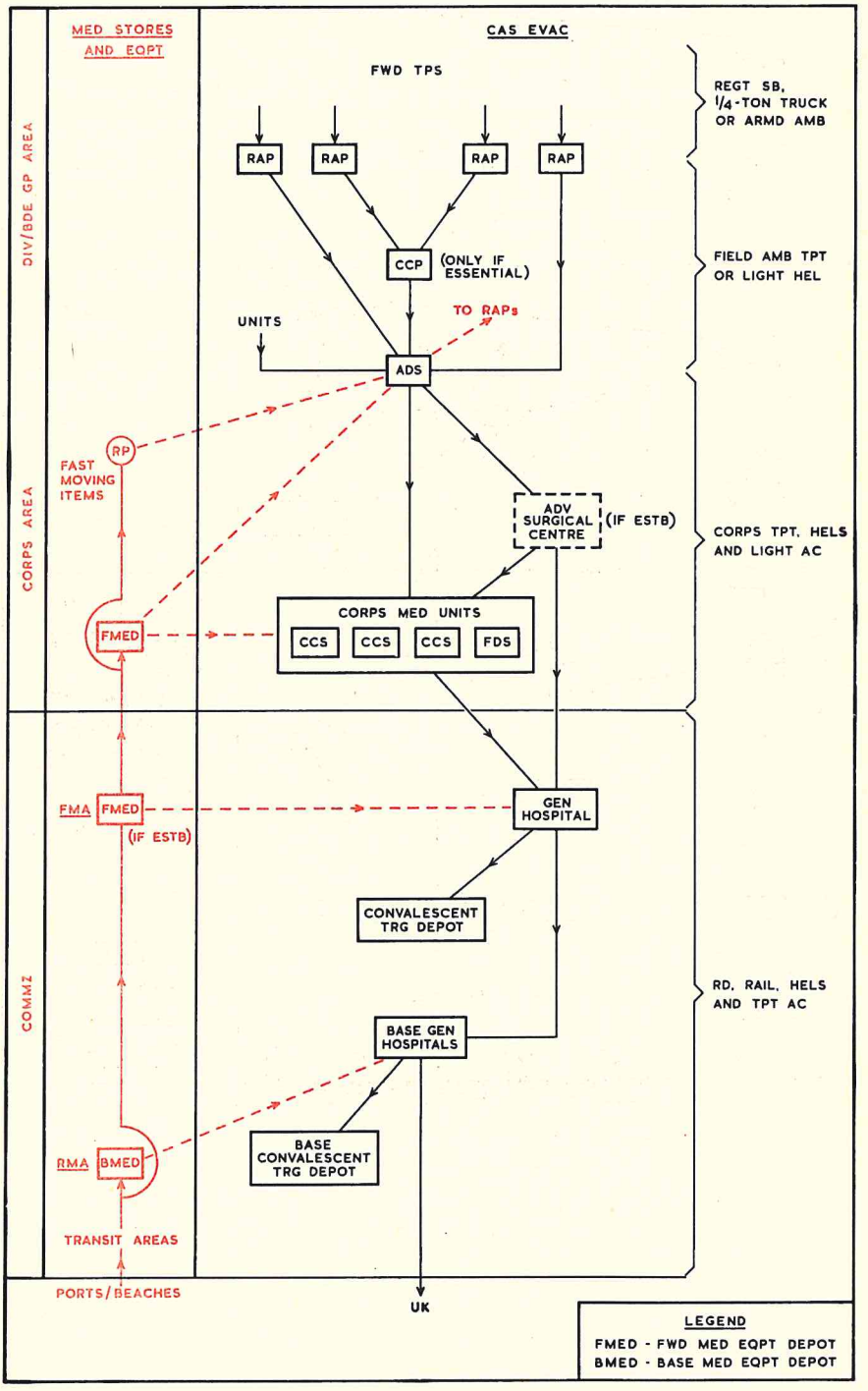
MED EVAC AND SUPPLY OF MED EQPT



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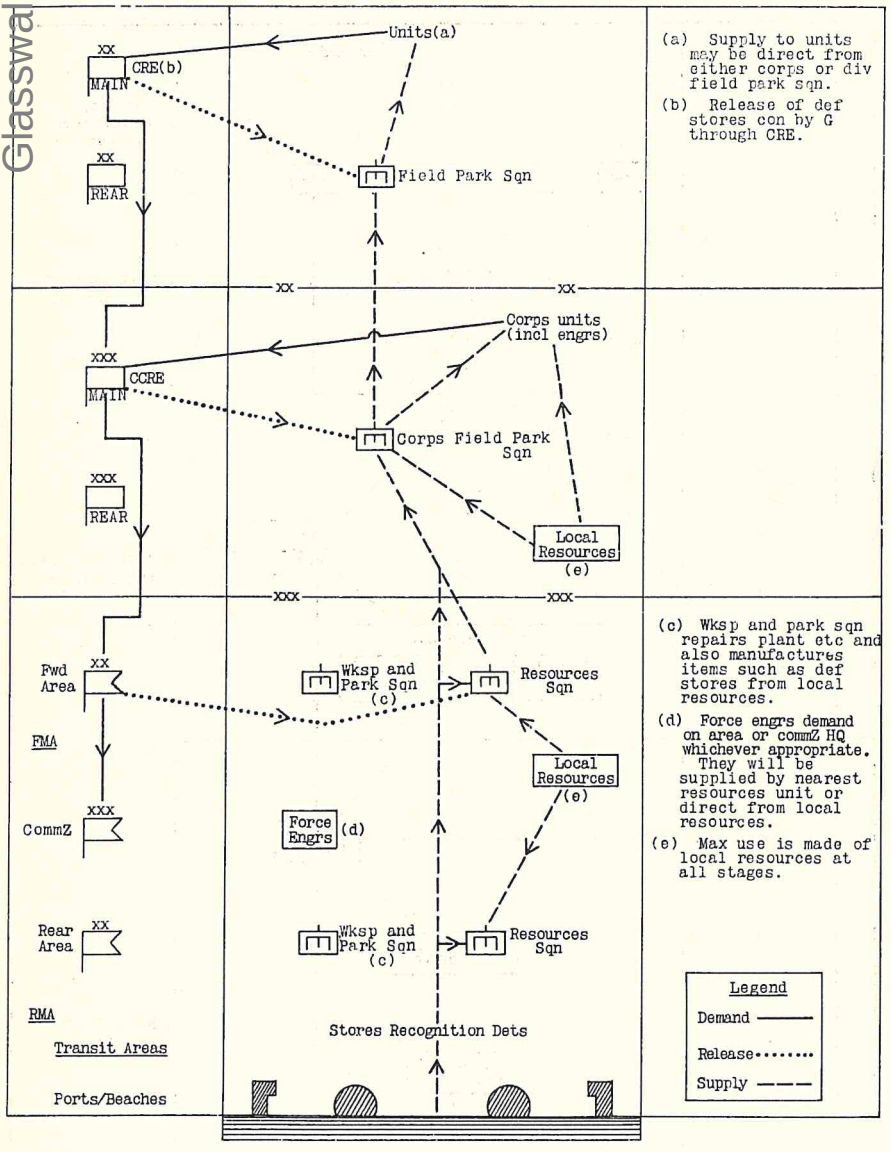
SUPPLY OF ENGR STORES



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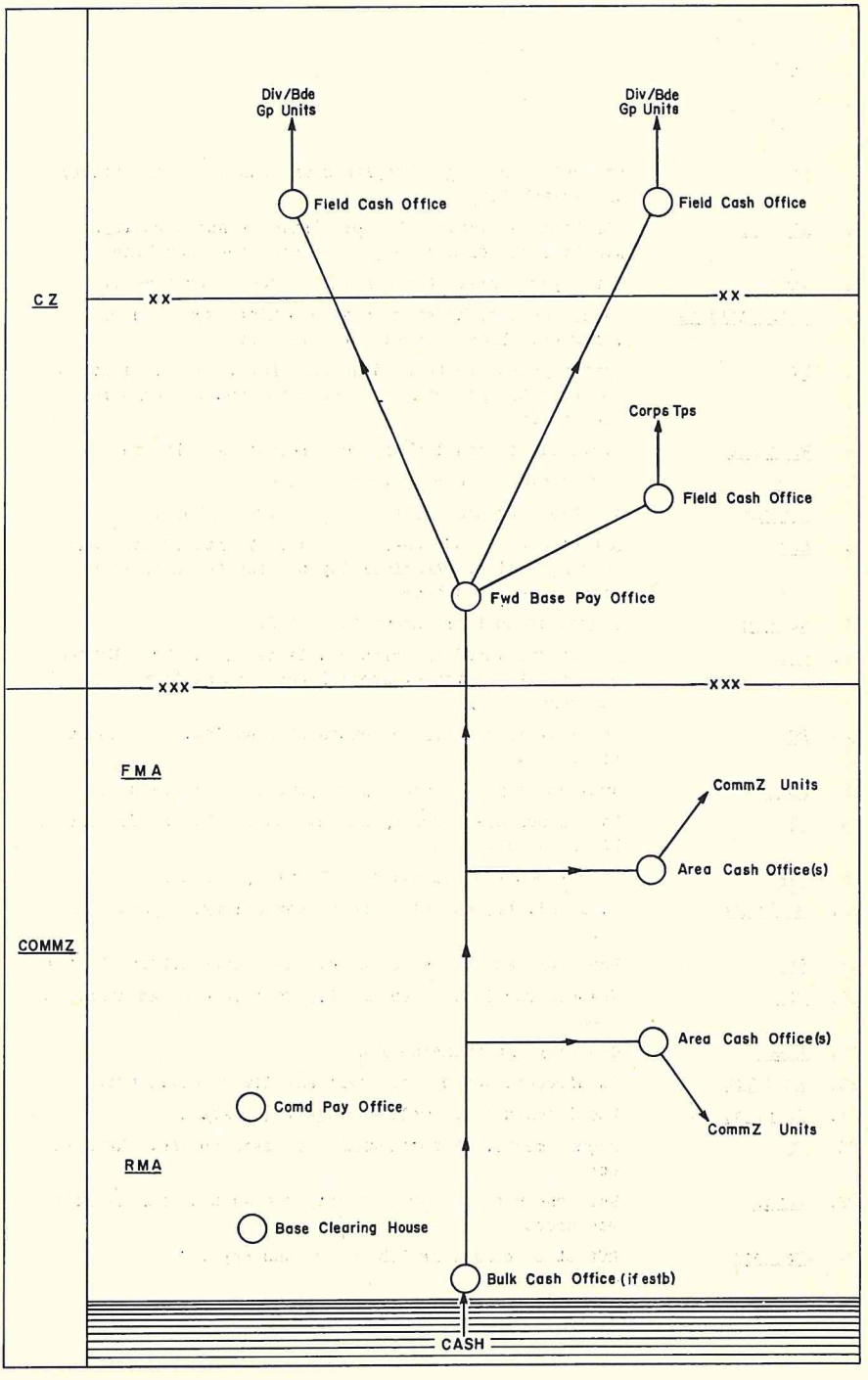
PAY SERVICES



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MAIN FACTORS IN ADMIN PLANNING

(IN ALPHABETICAL ORDER)

1.	Accn	For units, storage, hospitals and wksps. Availability and suitability.
2.	Air Tpt	Air lift available. Loc of airfields and capacity. Availability of air supply org and cargo handling eqpt.
3.	Ammo	Est expenditure. Dispersal of stocks. Availability.
4.	Civil Affairs	Evac, feeding, housing, med, clothing, mov, con of refugees. Effectiveness of civil govt.
5.	EME	What repairs are to be done and where. Availability of spare parts and accn. Use of roads and railways for backloading.
6.	Engr Stores	Availability and loc of local resources. Tpt required.
7.	Fire	Any special fire risk in depot areas.
8.	Labour	Availability and reliability of civil labour.
9.	Med	Est of battle and non-battle cas. Method of evac and holding policy. Availability of accn for hospitals. Special health dangers.
10.	Nuclear	Degree of nuclear threat to L of C.
11.	Ord	Loc of stockholding units and level of stocks. Method of tpt. Provision of special eqpt and clothing. Local purchase policy.
12.	POL	Local availability and method of handling. Est consumption.
13.	Ports	Availability and capacity of ports. Civil labour.
14.	PW	Est of numbers. Policy for disposal. Policy for use of PW as labour.
15.	RAF	Requirements of supplies, POL, ammo, labour.
16.	Railways	Availability, capacity and vulnerability. Operating pers.
17.	Res	Level of res stocks to be held and distr within theatre.
18.	Rfts	Numbers required, accn and trg facilities. Acclimatisation.
19.	Roads	Capacity and vulnerability.
20.	Road Tpt	Requirement and distr. Availability of civil tpt.
21.	Supplies	Local resources. Cold storage requirements.
22.	TC	Requirements. Effectiveness of civil police. Refugee con.
23.	Water	Est consumption. Availability and suitability of local resources.
24.	Weather	Effect on comms, health of tps and eqpt.

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CALCULATION OF MAINTENANCE TONNAGES

FOR STAFF COLLEGE USE ONLY

1. Experience in World War II showed that the consumption of all types of commodity was roughly proportional to the number of men in the theatre of operations, and, for planning purposes, it was possible to express consumption in terms of "pounds per man per day". This sort of planning yardstick can only be applied to the theatre of operations as a whole. It is possible and necessary to make much more accurate estimates of consumption of particular formations and units, depending on the role they are to perform.

2. The table below is based on last war experience, modified in the light of modern techniques. It will be used for Staff College exercises only and must be tempered by commonsense, eg, if the force is operating mainly on air maintenance, the consumption of POL by the Army will be relatively small, while that of the RAF will be greater.

MAINT TONNAGES

Commodity	Lbs/man/day	
	Army (overall)	RAF (overall)
(a)	(b)	(c)
Supplies	7	7
Ammo	8	10
Ord stores less vehs and ammo	4	1.5
Vehs	2	0.5
Engr stores (incl tn stores and those of ord origin)	10	13
Ac spares	1	13
Med, canteen, postal	1	1
TOTAL, dry cargo	33	46
Bulk POL	9	9
Ac fuel	2	120
TOTAL, POL	11	129
GRAND TOTALS	44	175

Notes. The main variables are ammo, engr stores and POL and, in practice, more exact ests must be made if possible. In particular, the RAF must be asked to make detailed ests of ac fuel consumption.

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TYPES OF CORPS ADMIN UNITS

Service	Unit	Remarks
(a)	(b)	(c)
RAC	Corps delivery sqn Fwd delivery sqns	
Engr	One engr gp - Two corps engr regts Corps field park sqn	Although an arm, engrs carry out many Q tasks.
Sigs	Corps sig park	Holding sig project and certain con sig stores.
ST	Corps tps column RASC - GT coy Heavy GT coy Tipper coy Motor amb coy Supply coy - Four supply pls Corps HQ car coy RP pls GT coys	 Under HQ corps tps column for admin. One per bde gp with one HQ supply coy for every four pls. To provide the second line lift for corps armd and arty units and to carry the balance of second line scales for bde gps that cannot be carried by their organic units. HQ tpt columns are provided on the scale of one per four tpt coys.
Med	CCSs FDSs FSTs FTTs Med pl Field hygiene sect Fwd med eqpt depot Specialist teams Mob dental teams	 For motor amb coy.
Ord	CRAOC corps tps Corps tps OFP Corps ord maint park Wksp stores sects GW coy Kitting pl	 Att REME wksps. Att to corps delivery sqn.
EME	CREME corps tps Medium wksps Corps tps wksp Corps rec coy Engr C veh wksp Tpt coy wksps Telecomms wksp SSGW wksp SAGW wksp Light ac sqn wksp Light ac flt wksp LAA wksp Regt (HJ/8 in) wksp Regt (loc LR or loc SR) wksp	 (1 heavy rec pl per armd bde gp (1 light rec pl per three inf bde gps
Pro	Corps pro coy Corps pro sig coy	
Pay	Fwd base pay office Field cash offices	
Courier and Postal	Courier and postal units type B and D	
Edn	News sheet teams	
Rft	Corps rft unit	Of up to nine rft sub-units, each holding rfts for inf bde gps or corps tps.

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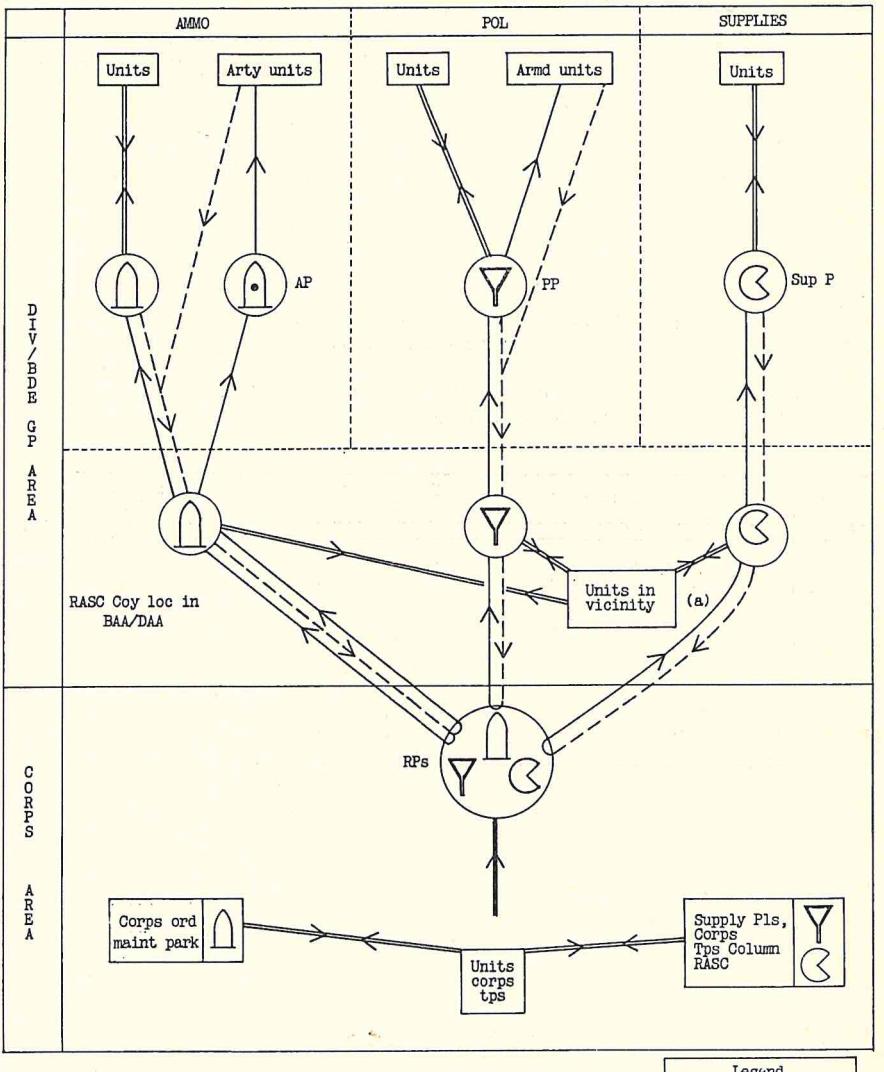
SUPPLY IN THE CZ



Notes. (a) Units in vicinity, incl B echelons, may collect requirements from DPs estb in, or close to, nearest RASC coy loc.

(b) APs, PPs and Sup Ps are collectively known as DPs.

(c) In practice, ammo and POL are often issued at the same place. This is known as a comp pt.

(d) Supplies also are sometimes issued at a comp pt.

Legend

Unit first line tpt

Second line tpt full

Second line tpt empty

Force tpt from FMA

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STANDARD APs

FOR STAFF COLLEGE USE ONLY

1. In Staff College exercises, standard APs will be assumed to hold one third of the second line scales for the units dependent on the AP.

2. The number of 3-ton vehs in a standard AP can be calculated from the table on page 435. The following are examples:-

Serial	Type of Standard AP	Units/Formations supported	Number of 3-ton vehs
(a)	(b)	(c)	(d)
1	All natures AP (less mines and explosives)	Inf bde gp	18
		Armd bde gp	35
2	Arty AP	One regt (25-pr) and One regt (5.5-in)	12
3	Other natures AP (All natures less arty)	Inf bde gp	13
		Armd bde gp	27

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SECOND LINE LOADING SCALES

FOR STAFF COLLEGE USE ONLY

Gen

1. Authorised second line loading scales are to be used as a planning guide. In ops the actual loading of second line tpt must be adjusted to meet changing op requirements.
2. The table below is to be used for Staff College exercises only. Unless otherwise stated in exercise instructions, it will be assumed that second line tpt is loaded in accordance with this table.
3. Second line loads are sufficient to maint units and formations in action at "normal" rates of expenditure for one day.

Expenditure Rates

4. Expenditure rates are expressed as follows:-
   a. Supplies - in days
   b. POL - in miles
   c. Ammo - in rounds per gun (rpg)
5. The ammo expenditure rates in the table will be taken to be the normal expenditure when in contact with the enemy. During periods of "intense" activity, twice the "contact" rate will be used. During "quiet" periods, half the "contact" rates will be used.

Serial	Commodity	3-ton load	Expenditure Rate	Number of 3-ton loads for:-									Remarks
				Div Tps	Armd Bde Gp	Inf Bde Gp (APC)	Inf Bde Gp	Armd Regt	Armd Car Regt	Regt (5.5-in)	Inf APC Bn	Inf Bn	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(j)	(k)	(l)	(m)	(n)	(o)
1	Supplies	rations											
	Fresh	1,250	1 day	) 1	5	5	5	) 1	) 1	) 1	1	1	(a) Incl biscuits.
	Comp	1,500 (a)	1 day	)	4	4	4	)	)	)	1	1	
2	POL (b)	gals	miles										(b) Incl 4% lubricants.
	Tracks	)	40 (d)	-	50	14	14	14	-	-	-	-	(c) Cooking, heating and generators.
	Wheels	) 675	40 (e)	3	7	12	7	1	3	2	3	1	(d) Mixed running (incl all APCs).
	Misc (c)	)	1 day	2	2	2	2	-	-	-	-	-	(e) Road running (B vehs only).
3	Ammo	rounds	rpg										
	155-mm	52	70	-	25	-	-	-	-	-	-	-	
	5.5-in	66	70	-	-	7	7	-	-	21	-	-	
	25-pr	184	100	-	-	7	7	-	-	-	-	-	
	120-mm	45	18	-	12	4	4	4	-	-	-	-	
	105-mm	88	35	-	48	16	16	16	-	-	-	-	
	120-mm (Mobat)	66	12	-	2	5	5	-	-	-	2	2	
	81-mm mortar	422	70	-	2	4	4	-	-	-	2	2	
	Other Natures	(f)	-	1	15	10	10	4	6	1	2	2	(f) Incl all inf ammo (except Mobat and 81-mm mortar) and minor AFV ammo.
	Mine Anti-tank		-	-	-	)	)	-	-	-	-	-	
	Mine Antipers		-	-	-	) 2	) 2	-	-	-	-	-	
	Explosives		-	-	2	2	2	-	-	-	-	-	
	TOTALS (assuming comp rations)			7	169	89	84	40	10	25	10	8	

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LOAD TABLES - AMMO

(THE FIGURES QUOTED ARE IN 3-TON VEH LOADS)

Arty		Mortars, etc		SAA	
Weapon	Number of complete rounds	Weapon	Number of complete rounds	Weapon	Number of complete rounds
(a)	(b)	(c)	(d)	(e)	(f)
2-pr	864	Grenades 36 M	3,360	Browning .30-in	74,500
75-mm how	222	Grenades 80	3,204	Rifle .303-in	55,200
76-mm gun	272	Grenades 83	2,976	Rifle 7.62-mm	78,600
105-mm a. Tropical pack	94	Grenades 94	2,882	Pistol .380-in	141,120
b. Others	112	Mortar 2-in smoke	1,800	9-mm	150,500
20-pr	80	Mortar 81-mm	364	Cartridges sig 1-in	28,368
105-mm (tank)	88	Mortar 4.2-in HE	192		
25-pr	184	Mines Anti-tank Mark 7	116		
5.5-in gun a. 80 lbs	66	Mines Antipers 5	4,464		
b. 100 lbs	53	Mines Antipers 6	5,060		
155-mm gun	41	Mines shrapnel	480		
155-mm how	52	Mines Dingbat	15,000		
7.2-in how	26	Rockets 3.5-in	424		
40-mm L60	912	120-mm Mobat	66		
40-mm L70	648				
120-mm gun L1	45				
106-mm recoilless rifle	111				

Notes. 1. For some eqpts there are several natures of ammo, eg AP, HE, smoke, all of different weights, but for gen guidance an average figure has been incl in the above table.

2. For most natures there are several types of packaging which, if all were incl, would require a complicated table. The quantities shown above can therefore only be taken as a gen guide.

3. A few of the above figures vary from those given in Sect D to App A to Admin in the Field Vol 1. For Staff College purposes the above table will be used.

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LOAD TABLES - POL, WATER, SUPPLIES, WIRE AND MISC

1. POL and Water

Product	Packing	Number of gals per 3-ton lorry
MTGAS	4½-gal jerrican	675
	40 - imperial gal drum	720
Lubricants	4½-gal jerrican	585
	5 - imperial gal drum	620
DIESO	4½-gal jerrican	620
	40 - imperial gal drum	640
Water	Container, water, 4½-gal	553

2. Supplies

Type		Number of rations per 3-ton lorry
Comp 10 men packs (without biscuits)	160 packs	1,600
Comp 5 men packs (without biscuits)	305 packs	1,525
Biscuits (22½-lb case)	224 cases	8,960
(54-lb case)	93 cases	8,930
24 hr ration packs (cases of 10)	149 cases	1,490
Fresh rations approx		1,250
Hard rations approx		1,500

3. Wire etc carried by a 3-ton lorry

Stores	Enough for 300-yd fence	Enough for 500-yd fence
	Catwire fence - Type I	Low Wire Entanglement
Pickets AI long	192	-
Barbed wire concertina	36	-
Barbed wire, coils 28-lb	18	75
Cutters wire folding, Mk 1	15	15
Gloves wiring, pairs	24	24
Pickets AI short	-	1,000

4. Blankets carried in 3-ton lorry - 55 bales @ 25 per bale = 1,375 or 120 bales @ 10 per bale = 1,200.

5. Sandbags carried in 3-ton lorry - 78 bales @ 200 per bale = 15,600.

6. Anti-gas stores carried in 3-ton lorry - personal eqpt for 700 men.

TPT PLANNING DATA

Veh Load Capacities

7. ACI 188/62 permits four tons, and in some circumstances five tons, to be carried in certain 3-ton vehs. In practice, however, many vehs will carry less than three tons. For planning purposes the following capacities will be assumed:-

a. 3-ton truck - 3 tons

b. 10-ton truck - 9 tons

Loading and Unloading Times

8. In practice these times will vary widely, but for Staff College exercises the following times will be allowed for loading or unloading (incl harbouring, marshalling and refuelling):-

a. 3-ton truck - 2 hrs

b. 10-ton truck - 4 hrs

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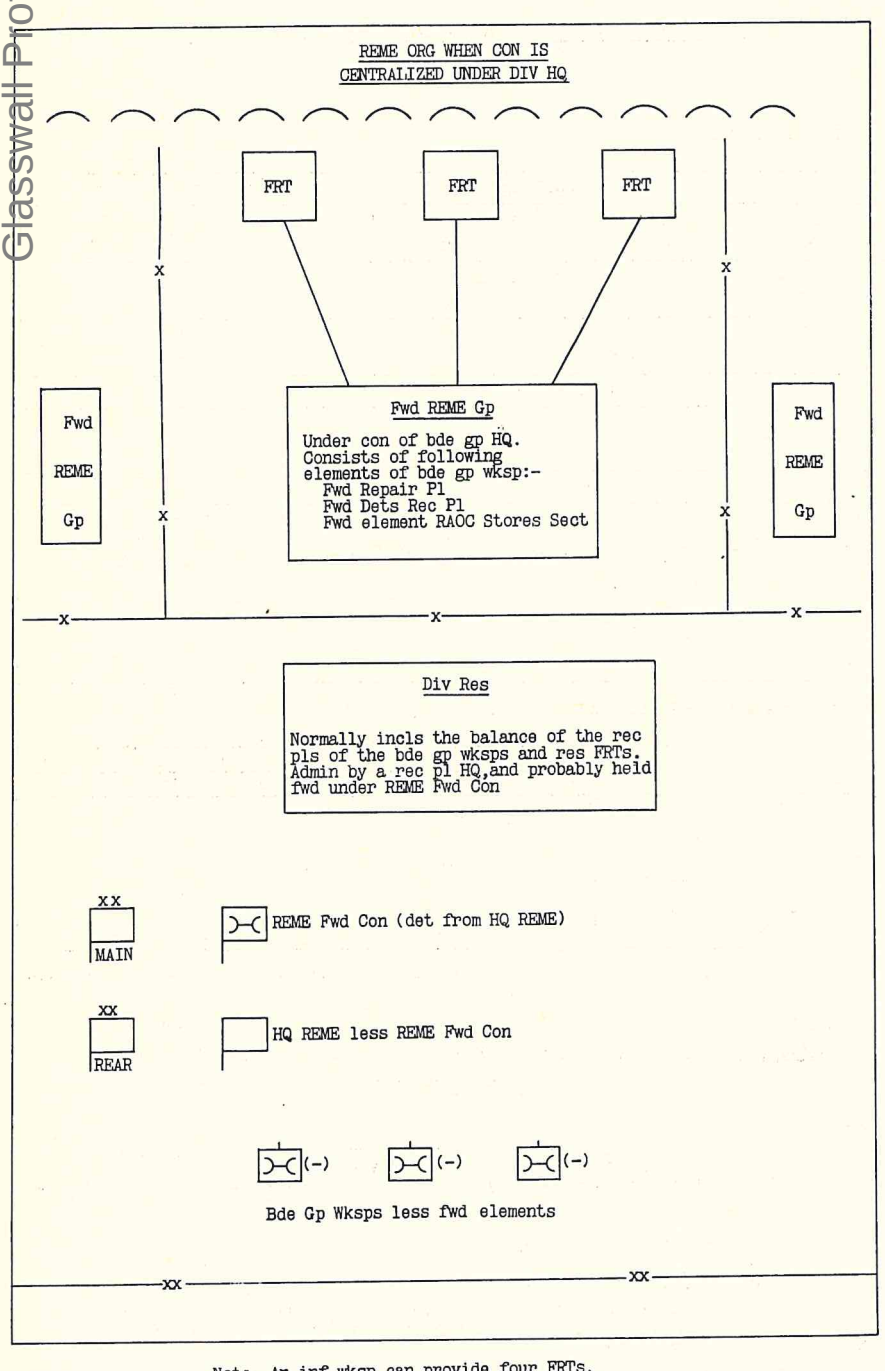

Note. An inf wksp can provide four FRTs.
An armd wksp can provide twelve FRTs.

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LADs

1. Light Aid Detachments (LADs), capable of unit repairs and first line rec are att to the following units and formation HQ in the CZ:-

Formation HQ	Div HQ Inf bde gp HQ Armd bde gp HQ Para bde gp HQ
RAC	Armd regt Armd car regt, armd recce regt and airptbl regt Corps delivery sqn
RA	Regt (155 mm SP) Regt (25 pr)
RE	Corps engr regt Armd engr sqn
R SIGS	Div sig regt Corps sig regt Corps tps sig regt
INF	Inf APC bn
RASC	Corps HQ car coy

Special Wksps

2. Special REME wksps, capable of unit and field repairs and rec, are att to the following units:-

RA	Regt (HJ/8 in) Regt (SSGW) Regt (SAGW) Regt (40/70/FCE7) Regt (loc LR and SR)
AAC	Light ac sqn Light ac flt
RASC	All RASC tpt coys

Rec Vehs in Div and Bde Gps

3.

Units	Div Tps		Armd Bde Gp		Inf Bde Gp	
	Rec Vehs	ARVs	Rec Vehs	ARVs	Rec Vehs	ARVs
Div HQ	1					
Div sig regt	1					
Light ac sqn	1					
Bde gp HQ			1		1	
Armd regt (each)			1	4	1	4
Regt (155 mm SP)			1	1		
Regt (25 pr)			-	-	1	
Inf APC bn			1	4 (a)		
Tpt coy			2		2	
Armd/inf wksp			10 (b)	4 (b)	5 (c)	2 (c)

Notes. (a) Light ARVs on APC veh.

(b) Armd wksp has in addition:-

two rec vehs, two crawler tractors, one tank tptr) for use in the wksp area

(c) Inf wksp has in addition:-

one rec veh, one crawler tractor, one tank tptr) for use in the wksp area

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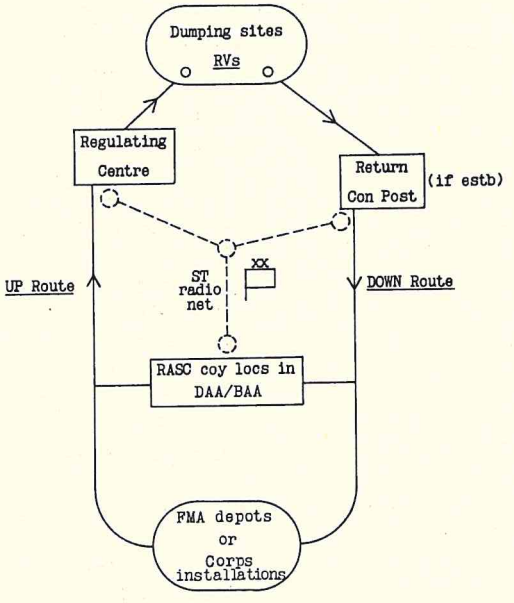
ORG AND CON OF DUMPING



FUNCTIONS AND RESPONSIBILITIES

Con 1. Responsibility - Q Staff. Detailed execution by ST from formation HQ.

Org 2. Regulating Centre estb on UP route in fwd area to:
a. Coord guides to dumping sites.
b. Regulate flow to dumping sites and keep con HQ info of progress.

Composition would probably incl RASC offr, RA offr (if gun ammo being dumped), guides, pro for TC.

3. Return Con Post may be estb on DOWN route to con return of empty vehs. It will be manned by the RASC. Whenever possible will be combined with the Regulating Centre.

4. Vehs will normally check in through their coy loc in BAA/DAA.

5. Dumping Sites. Bde gp units will be responsible for selection, marking and org of dumping sites and for the provision of guides, unloading parties and TC.

Comms

6. The programme will normally be con by the formation RASC (eg CRASC at rear div HQ) who will be in radio comm with the Regulating Centre, return con post (if estb) and the coys involved.

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DUMPING CALCULATIONS

Gen

1. A dumping problem is normally concerned with the solution of one of the following questions:-

   a. How long will it take to dump so many tons of stores with a given number of vehs?

   OR b. How many vehs will be required to dump so many tons of stores within a given time?

2. There are two recognised ways of solving these questions:-

   a. By formula. This is suitable when large tonnages and numerous vehs are involved and when accuracy is less important than speed of calculation, eg for the stocking of a RP.

   b. From first principles. This is the only method likely to give a sufficiently accurate answer for dumping problems at div and bde gp level.

Solution by Formula

3. The formula depends on averaging out the factors which affect the turn-round of vehs. The formula is:-

$$\underset{(V)}{\text{Number of vehs}} \times \underset{(T)}{\text{running time}} = \frac{\text{Total load/miles (L x M)}}{\text{Overall average speed (S)}} + \text{Loads (L) x time for loading and unloading on each round trip (R)}$$

$$\text{OR} \quad V \times T = \frac{L \times M}{S} + L \times R$$

4. A "safety factor" of 10% is added to the answer obtained by this formula.

5. An example is worked out on page 443.

Solution from First Principles

6. This method depends on examining in detail how long each journey will take and then tracing the mov of each column or packet of vehs, or individual veh. The timings, stage by stage are then noted down or recorded pictorially on a simple graph. Both methods are illustrated on page 443. Many different types of graph can be used and experts usually design their own.

Completion of a Dumping Programme

7. If second line tpt is used for dumping, the programme is not complete until the vehs have been reloaded with their normal loads.

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DUMPING CALCULATIONS - EXAMPLES

DATA

LIFT = 200 x 3-ton loads from A to B
DISTANCE = 40 miles from A to B
SPEED = 20 mph by day, 15 mph by night
FIRST LIGHT = 0400 hrs
LAST LIGHT = 2000 hrs

TPP - Very small. Ignore
REST AND SERVICING - 4 hrs during daylight
VEHS AVAILABLE - 0400 hrs D day
LOADING TIMES - 2 hrs for loading, 2 hrs for unloading
COMPLETION TIME - Programme to be completed by 1600 hrs D + 1 (last veh unloaded at B)

PROBLEM

How many 3-ton vehs are required?

FIRST PRINCIPLES

	hrs	
Vehs arrive A 0400 hrs loaded by	0600	
Arrive B (40 miles at 20 mph)	0800	
Leave B (2 hrs unloading)	1000	1st load complete
Arrive A (40 miles at 20 mph)	1200	
Reload at A	1400	
Rest (4 hrs)	1800	
Arrive B (40 miles at 20 mph)	2000	
Leave B (2 hrs unloading)	2200	2nd load complete
Arrive A (40 miles at 15 mph)	0040	
Leave A (2 hrs loading)	0240	
Arrive B (1 hr 20 mins at 15 mph) (1 hr at 20 mph)	0500	
Leave B (2 hrs unloading)	0700	3rd load complete
Arrive A (40 miles at 20 mph)	0900	
Leave A (2 hrs loading)	1100	
Arrive B (40 miles at 20 mph)	1300	
Unloaded at B	1500	4th load complete

FIRST PRINCIPLES BY GRAPH

0400 D day	Arrive A	0100 D + 1		Arrive A
0500		0200		Loaded
0600	Loaded	0300		
0700		0400	Light	
0800	Arrive B	0500		Arrive B
0900	1st Load	0600		3rd Load
1000	Complete B	0700		Complete B
1100		0800		
1200	Arrive A	0900		Arrive A
1300		1000		
1400	Loaded	1100		Loaded
1500		1200		
1600	Rest	1300		Arrive B
1700		1400		4th Load
1800		1500		Complete B
1900	Arrive B	1600		DEADLINE
2000 Dark				
2100	2nd Load			
2200	Complete B			
2300				
2400				

1. Four loads per veh can be delivered at B within the 36 hrs available. Therefore, $\frac{200}{4}$ = 50 x 3-ton vehs will be required.
2. In this case vehs would then return to unit where they would have their rest for D + 1. Sometimes it is necessary to take into account the time required for return to unit and, in the case of second line tpt, reloading, in the time available.

FORMULA

1. Loads (L) = 200 Miles (M) = 80
   Load/Miles (LM) = 16,000
2. Running Time (T)
   Daylight (28 hrs less 4 hrs rest) = 24 hrs
   Night = 8 hrs
   T = 32 hrs
3. Average Speed (S)

$$S = \frac{(24 \text{ hrs day} \times 20 \text{ mph}) + (8 \text{ hrs night} \times 15 \text{ mph})}{32 \text{ hrs}} = \frac{600}{32} = 19 \text{ mph}$$

4. Loading/Unloading time per round trip (R) = 4 hrs
5. Formula (Page 442)
   a. $V \times T = \frac{L \times M}{S} + L \times R$
   b. $V \times 32 = \frac{16,000}{19} + 200 \times 4$
   c. $\therefore V = \frac{842 + 800}{32} = \frac{1,642}{32} = 51$
   d. 51 + 10% safety factor = 56 x 3-ton vehs required

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COMPARISON BETWEEN US AND UK ADMIN SERVICES

Task	UK Services	US Cl of Supply	US Services
Procurement and Storage			
Ammo		V	Ord Corps
Vehs		II or IV	Ord Corps, Corps of Engrs
All electrical and mech eqpt	RAOC	II or IV	Primarily Ord Corps, Corps of Engrs and Sig Corps
Clothing		II	QM Corps
POL	RASC	III	QM Corps
Supplies (Rations)	RASC	I	QM Corps
Distr to Units			
Supplies, POL, ammo	RASC	I, III, V	QM Corps, Tn Corps and Ord Corps
Vehs (except tanks)	RAOC	II or IV	Ord Corps, Corps of Engrs
Tanks	RAOC, RAC	II or IV	Ord Corps
Repair and Rec	REME	-	Each service
Cas, Care and Evac	RAMC, RASC	-	Army Med Service
Tn			
Road	RASC		Tn Corps
Rail, ports, waterways	RE(Tn), RASC		Tn Corps
Fire	RASC		Corps of Engrs

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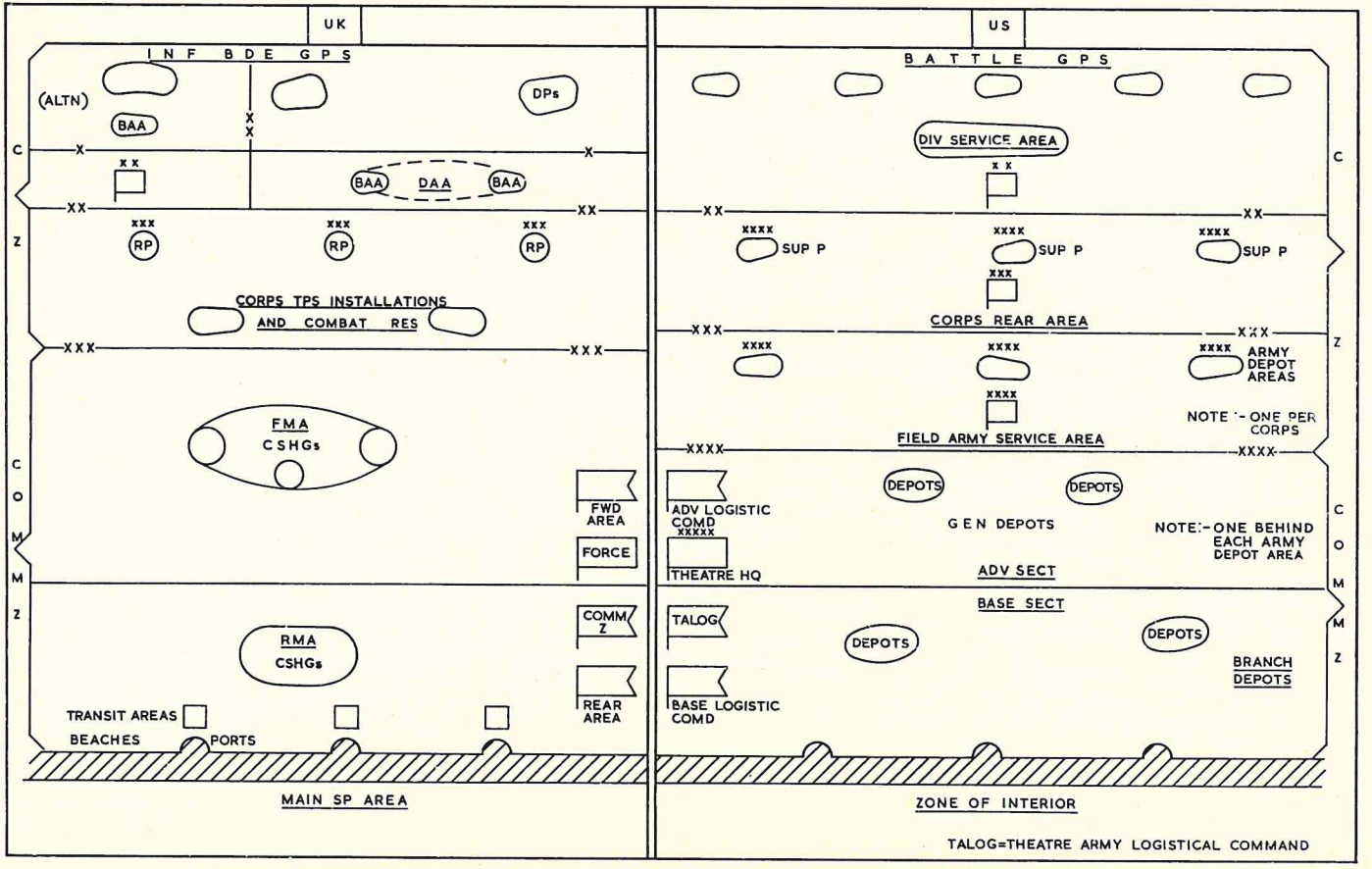
UK AND US LOGISTIC SYSTEMS



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GLOSSARY OF SOME USEFUL NUCLEAR TERMS

(AGREED TAC TERMS IN EVERYDAY USE ARE CONTAINED IN THE JOINT SERVICES GLOSSARY)

1. Atomic Damage Template (ADT). A graphical representation for a given yield, height of burst, and map scale, showing a GZ pt surrounded by concentric circles or arcs depicting damage radii, incl arcs for consideration of tp safety.

2. Buffer Distance (D_b). In tp safety considerations, the distance between the limit of radius of safety and the nearest position of our own tps. It may be expressed in multiples of the CEP. In consideration of burst heights it is the distance between the desired burst height and the min safe height of burst.

3. Circular Error Probable (CEP). A measure of accuracy in delivery of weapons. One CEP is the radius of a circle about the mean pt of impact within which 50% of all weapons will fall. It is also referred to as the Circular Probable Error.

4. Damage Radius (R_d). The distance from GZ at which there is 50% probability that a tgt element susceptible to the weapon effect considered will be damaged to a specified degree of damage.

5. Delivery Error. The dispersion of pts of burst around a desired pt of burst due to ballistic characteristics of the proj, atmospheric conditions, and other factors.

6. Delivery System. The means of delivering nuclear weapons to the tgt. The five principal means are gun, FFR, GW, ac and prepositioning.

7. Desired Ground Zero (DGZ). For a surface burst, the pt on the earth's surface where detonation is desired. For an airburst or underground burst, the pt is on the earth's surface directly below or directly above the desired pt of detonation.

8. Fall-Out Safe Height of Burst ($H_{b(fs)}$). The height of burst above which there should be no significant fall-out. This height is usually less than one fireball radius from the ground; a burst therefore which is technically a surface burst may give no significant fall-out provided it is detonated above the fall-out safe height of burst.

9. Free Flight Rocket (FFR). A weapon carrying its own propulsion system and over which there is no con once it has been fired; it follows a ballistic trajectory.

10. Ground Zero (GZ). The pt on the earth's surface at, above, or below which, a nuclear detonation occurs. It will differ from DGZ by the amount of the delivery error.

11. Guided Weapon (GW). A weapon whose trajectory is con by a guidance system which may either be carried by the weapon or be on the ground.

12. Height of Burst (H_b). The height above (or below) the surface of the earth at which a nuclear detonation occurs. For convenience burst heights are referred to as high, low, surface or sub-surface. The height zone or bracket within which a burst must occur to be classified in this way is given in the damage tables (Table III).

13. Immediate Effects. Those effects which occur within approx one min after the detonation.

14. Induced Radioactivity. Radioactivity produced in certain materials as a result of nuclear reactions, particularly the capture of neutrons.

15. Kiloton (KT). The energy of a nuclear detonation which is equivalent to that produced by the detonation of 1,000 tons of TNT.

16. Kiloton Weapons. This covers all weapons producing a yield of one kiloton and less than 1,000 kilotons.

17. Megaton (MT). Equivalent to the energy released by 1,000,000 tons of TNT.

18. Megaton Weapons. This covers all weapons producing a yield of 1,000 kilotons or above.

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19. Minimum Safe Distance (MSD). The total distance from DGZ to our own tps required to ensure safety. It is the sum of the radius of safety (R_s) and the buffer distance (D_b).

20. Nominal Atomic Bomb. A term to describe a nuclear weapon with an energy release equivalent to 20 KT.

21. Non-Effective. As applied to an individual, cannot perform combat duties, may require evac, and can be considered a cas.

22. Nuclear Weapon. A gen name given to any weapon in which the detonation of the warhead results from the energy released by reactions involving atomic nuclei, either by fission or fusion or both.

23. Prepositioned. Actual placement of a weapon at the DGZ and prep for firing by some form of remote con or time mechanism.

24. Probability of Damage. The probability that damage will occur to a tgt or tgt element. May be expressed as a percentage or a decimal.

25. Radius of Safety (R_s). The horizontal distance from GZ beyond which the weapon effects on our own tps are acceptable.

26. Sub-Kiloton Weapons. This covers all weapons producing a yield below one kiloton.

27. Tgt Analysis. The study of a tgt to determine the proper weapon(s), yield(s), delivery means, burst height(s), DGZ(s), and time(s) of burst to obtain a desired level of damage or cas, consistent with the safety of our own tps and any restrictions imposed by the comd.

28. Warhead. That part of a nuclear weapon comprising the material and devices for the fission or fusion process.

29. Weapon. The warhead and its carrier, eg a complete shell/mated rocket.

30. Weapon Effects. The damage or cas producing agents, specifically blast, thermal radiation, and nuclear radiation, resulting from a nuclear detonation.

31. Weapon Selector. A transparent piece of material on which are drawn circles and arcs at regular intervals to the scale of the map in use for fire planning.

32. Weapons System. A nuclear weapon and its delivery means.

33. Yield. The energy released in a nuclear detonation; usually measured by the est equivalent tonnage of TNT required to produce the same energy release. It is expressed in kilotons (KT) or megatons (MT).

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SIGNAL DIAGRAMS

LEGEND

Radio set

Radio set operated by R SIGS

1 ton armoured

Trailer

¼-ton

¾ ton (Long wheel base Land Rover)

Radio relay communications

Automatic rebroadcast between sets

Set fitting only

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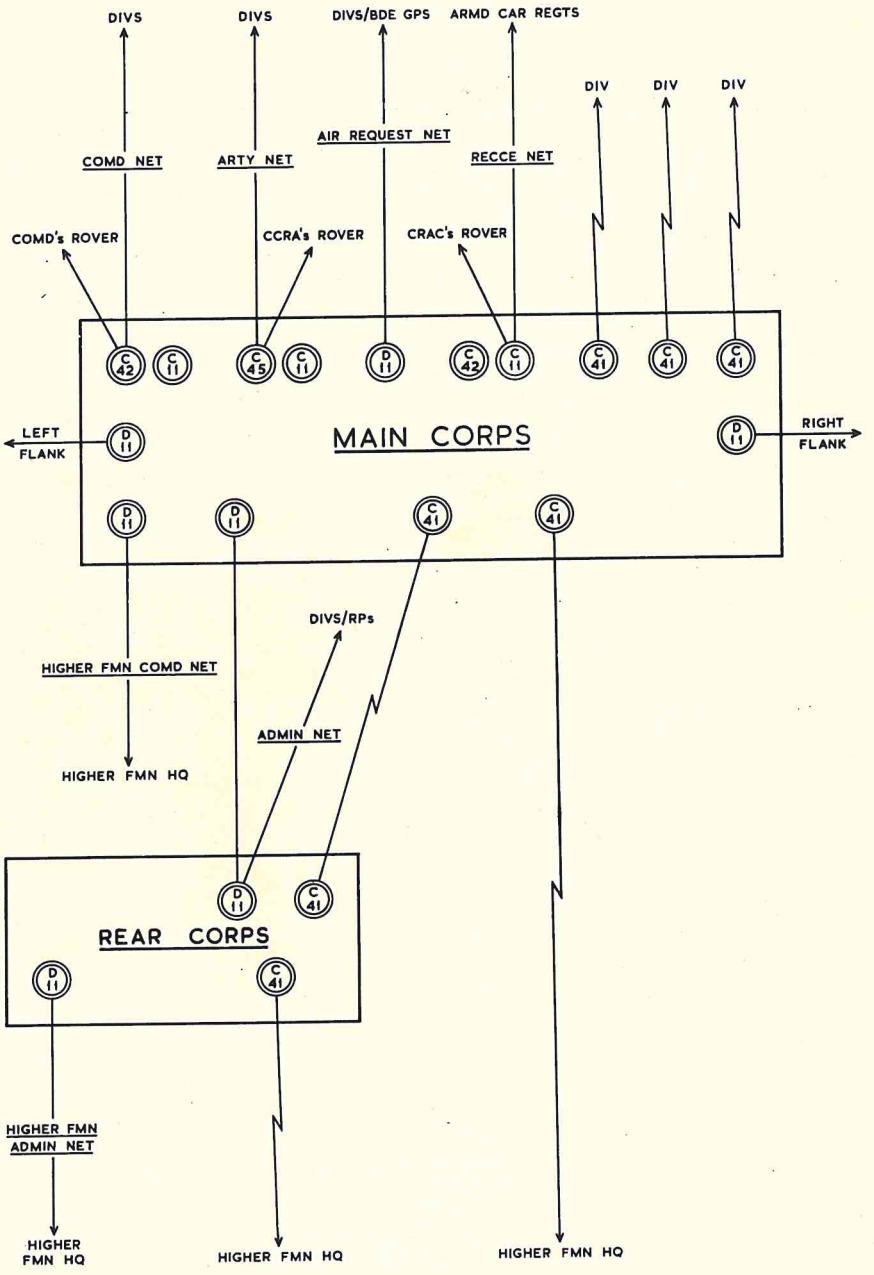
CORPS HQ



NOTES 1. BASIC RADIO COMMS ONLY ARE SHOWN; STEPUP SETS, REBROADCAST STATIONS ARE NOT SHOWN.
2. COMD AND ARTY NETS ARE VHF WITH HF BACK-UP. ADMIN NETS AND REAR LINKS ARE HF.
3. LOCAL LINES ARE APPROX 30 IN MAIN AND 15 IN REAR.

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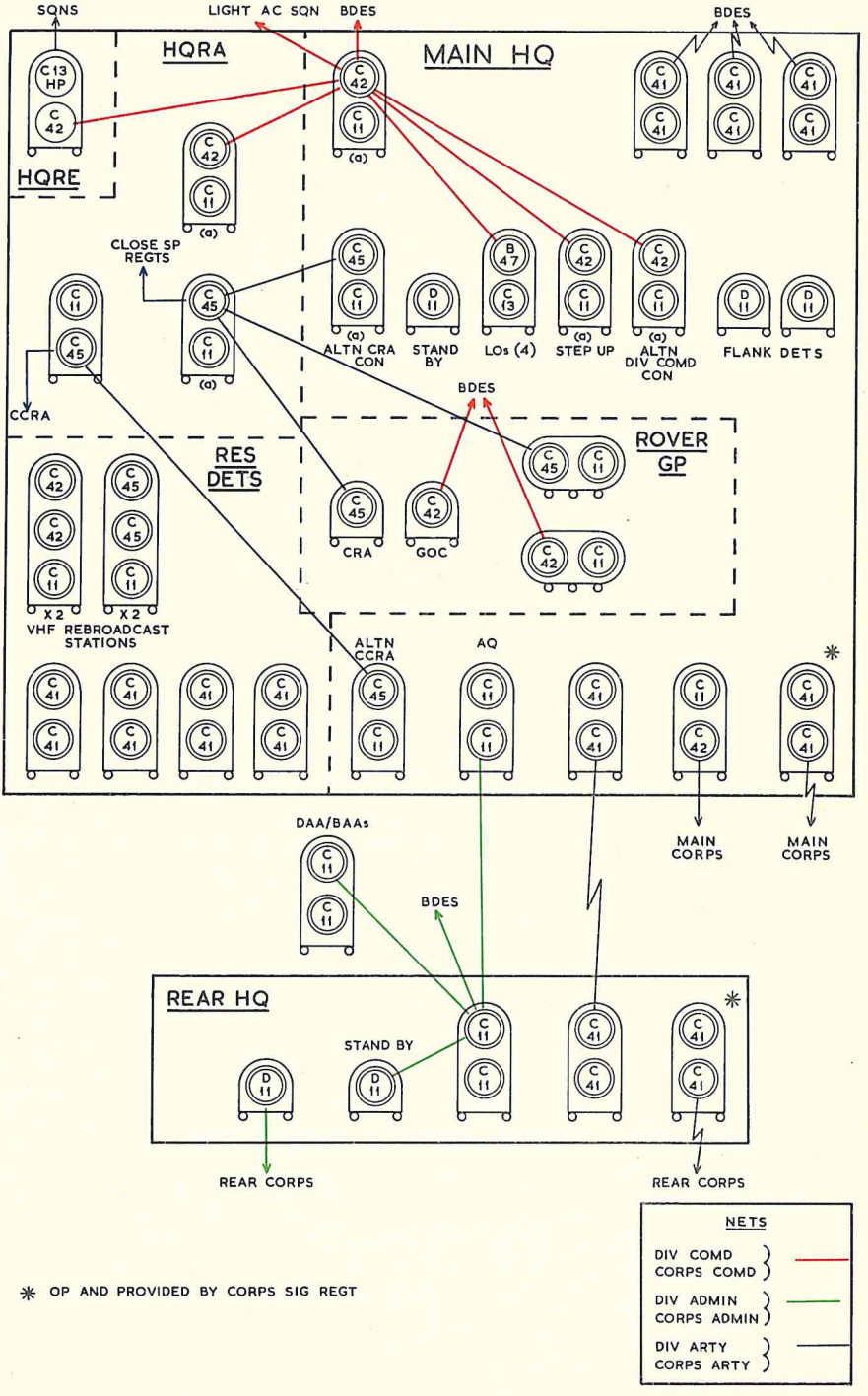
DIV HQ



* OP AND PROVIDED BY CORPS SIG REGT

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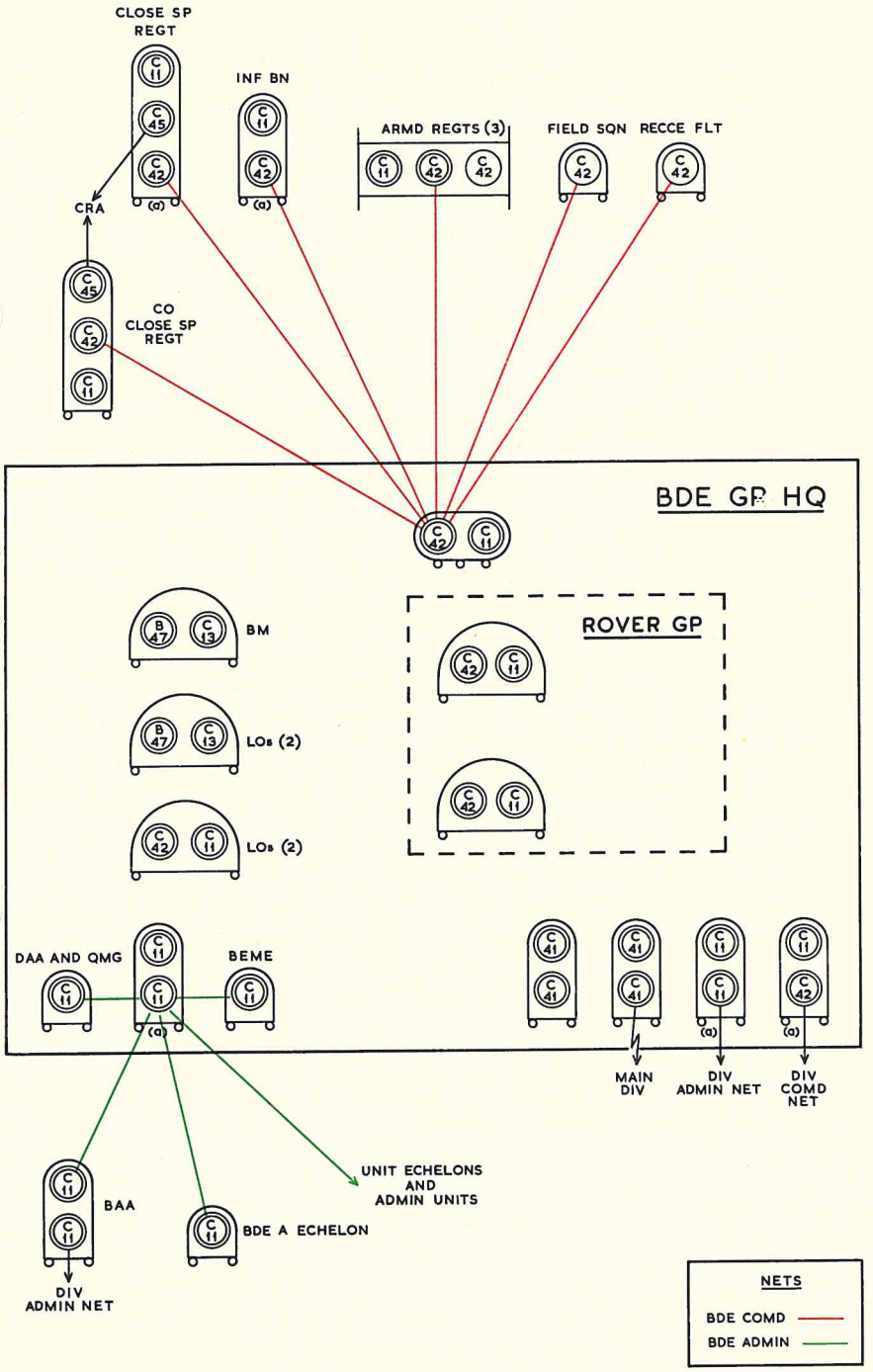
ARMD BDE GP



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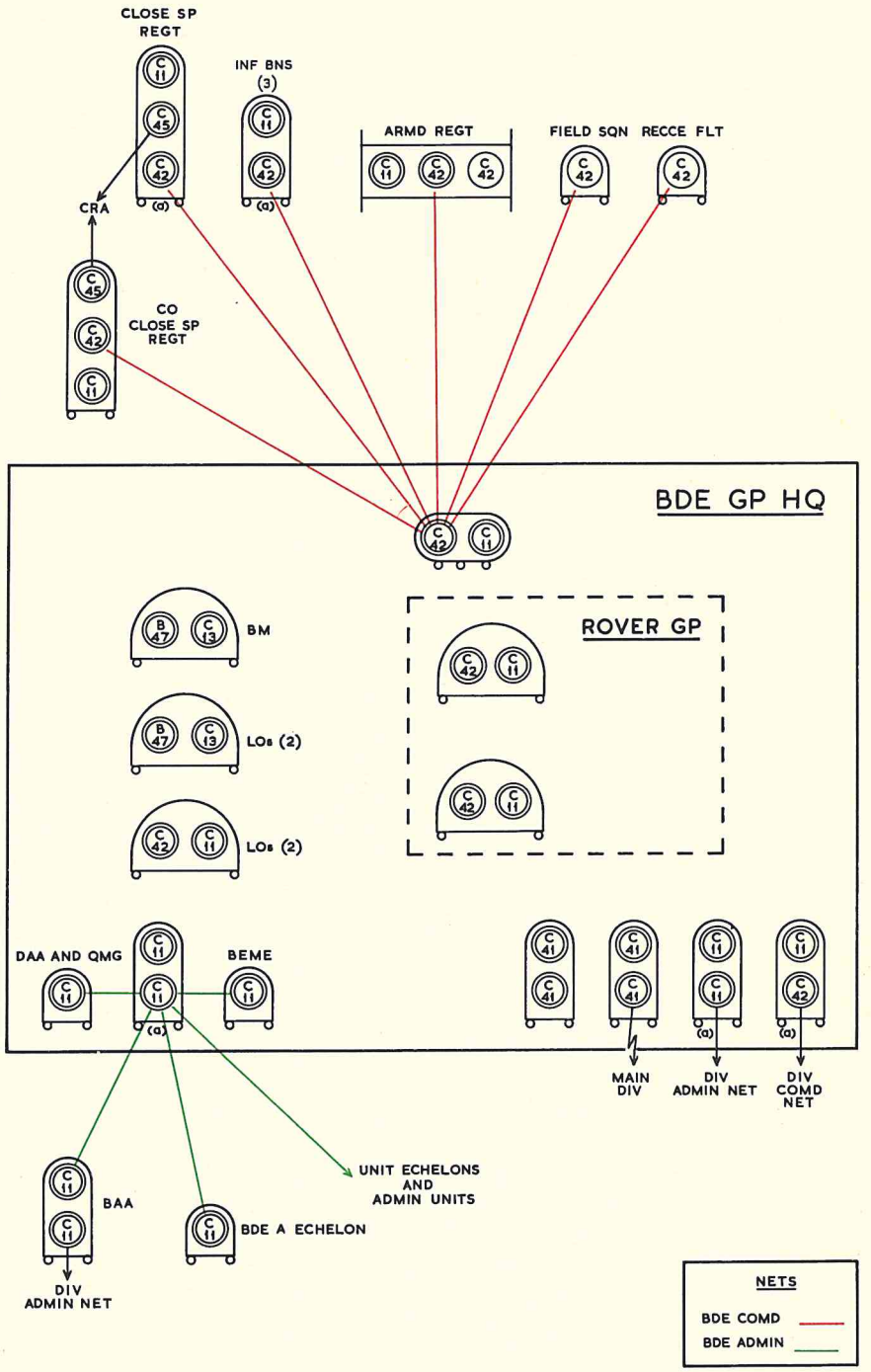
INF BDE GP



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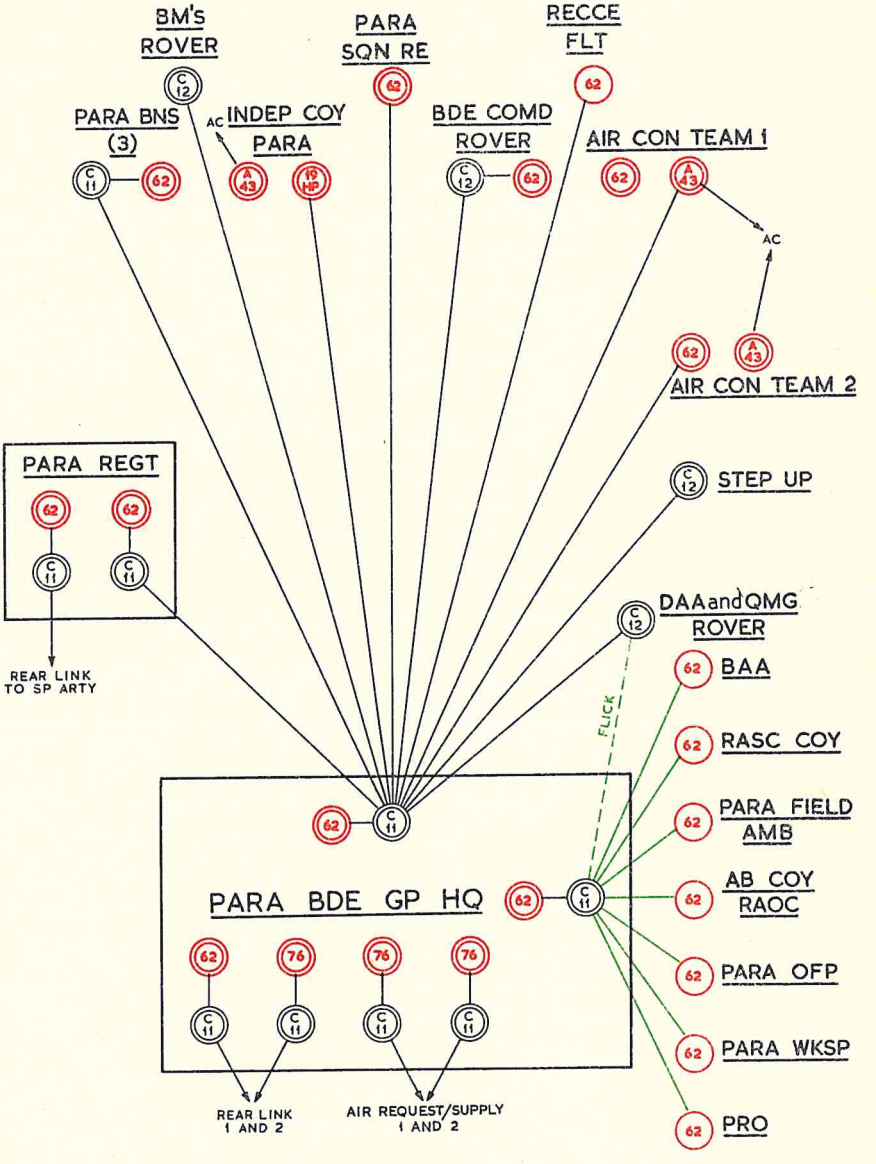
PARA BDE GP



NOTES. 1. ◯ ALL THESE SETS PARACHUTED ON THE MAN.

2. 62 AND 76 SETS WILL IN DUE COURSE BE REPLACED BY A14 NOW UNDER DEVELOPMENT. A14 HAS FREQ COVERAGE OF 2–8 mc/s AND A RANGE WITH ROD AERIAL ONLY, OF 15–25 MILES.

3. TWO D11 SETS MAY IN DUE COURSE REPLACE TWO C11s FOR REARWARDS WORKING AT BDE GP HQ.

NETS

COMD ——

ADMIN ——

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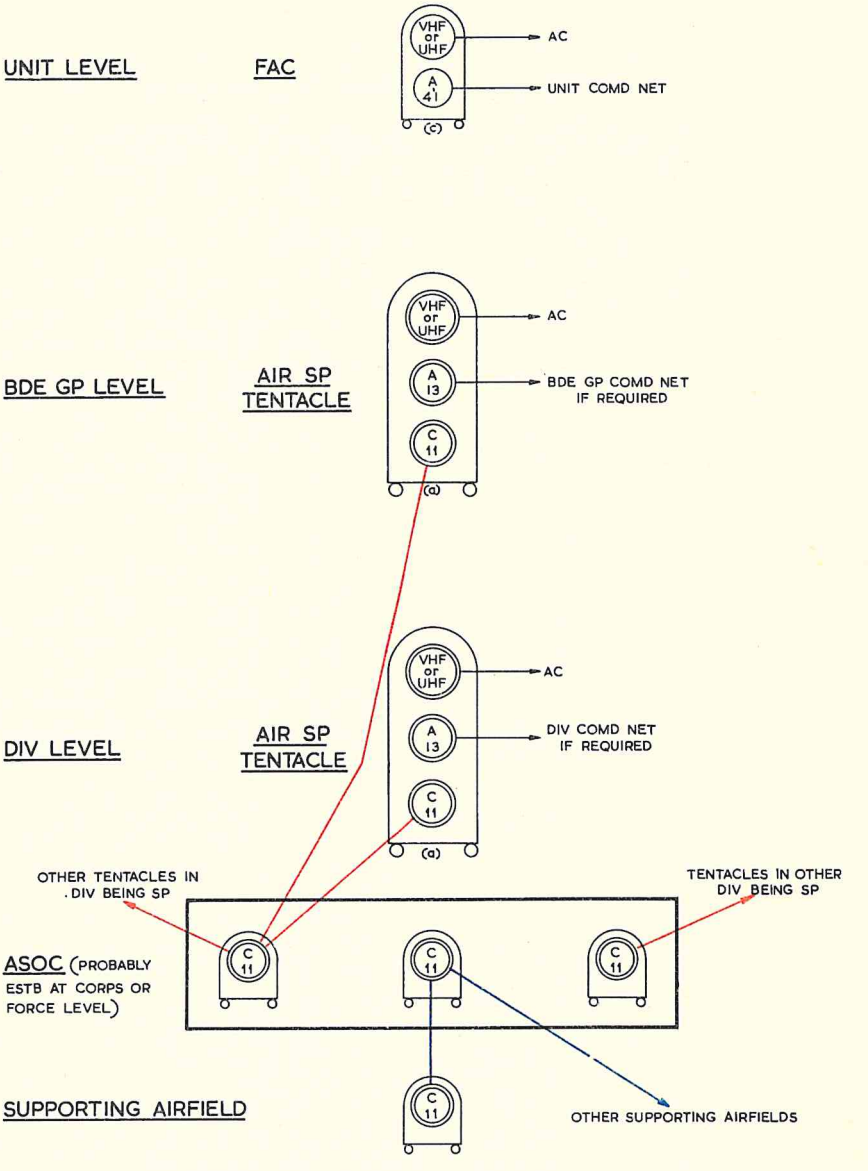
BASIC RADIO COMMS — SIG SQN (AIR SP)



NOTES
1. AIR REQUEST NETS ARE ESTB ON A SCALE OF ONE PER DIV BEING SP.
2. AT PRESENT RAF AC ARE EQUIPPED WITH VHF SETS, AND RN AC WITH UHF SETS. THE APPROPRIATE SET MUST THEREFORE BE CARRIED IN THE TENTACLE, AND BY THE FAC.

NETS
AIR REQUEST
GLOs

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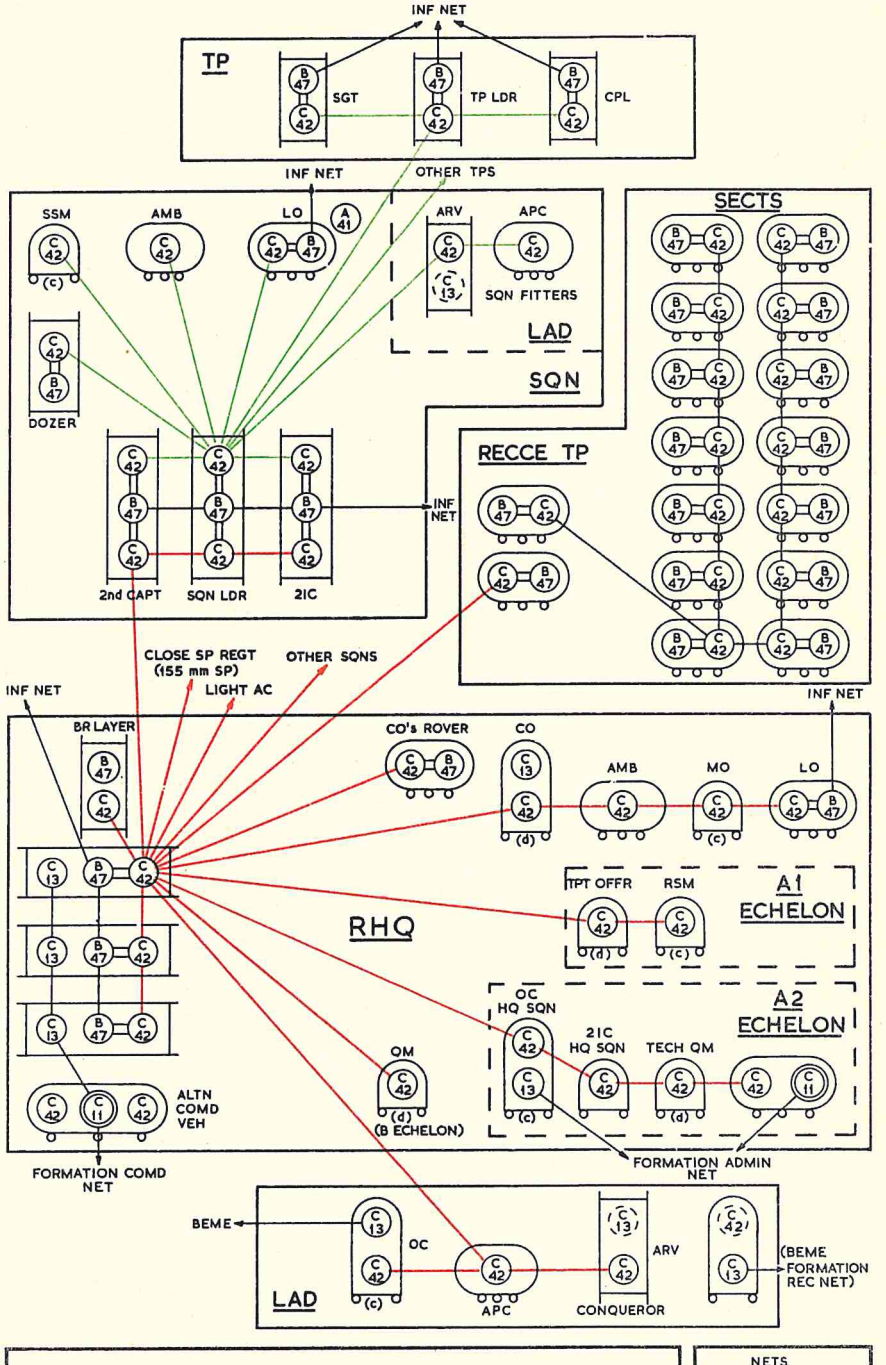
ARMD REGT (ON SQN FREQ)



NOTES. 1. THE REGT CAN WORK EQUALLY WELL ON A REGT NET AND FREQUENTLY DOES.
2. THE RECCE TP WILL OFTEN BE ON THE REGT NET.

NETS
SQN COMD
REGT COMD

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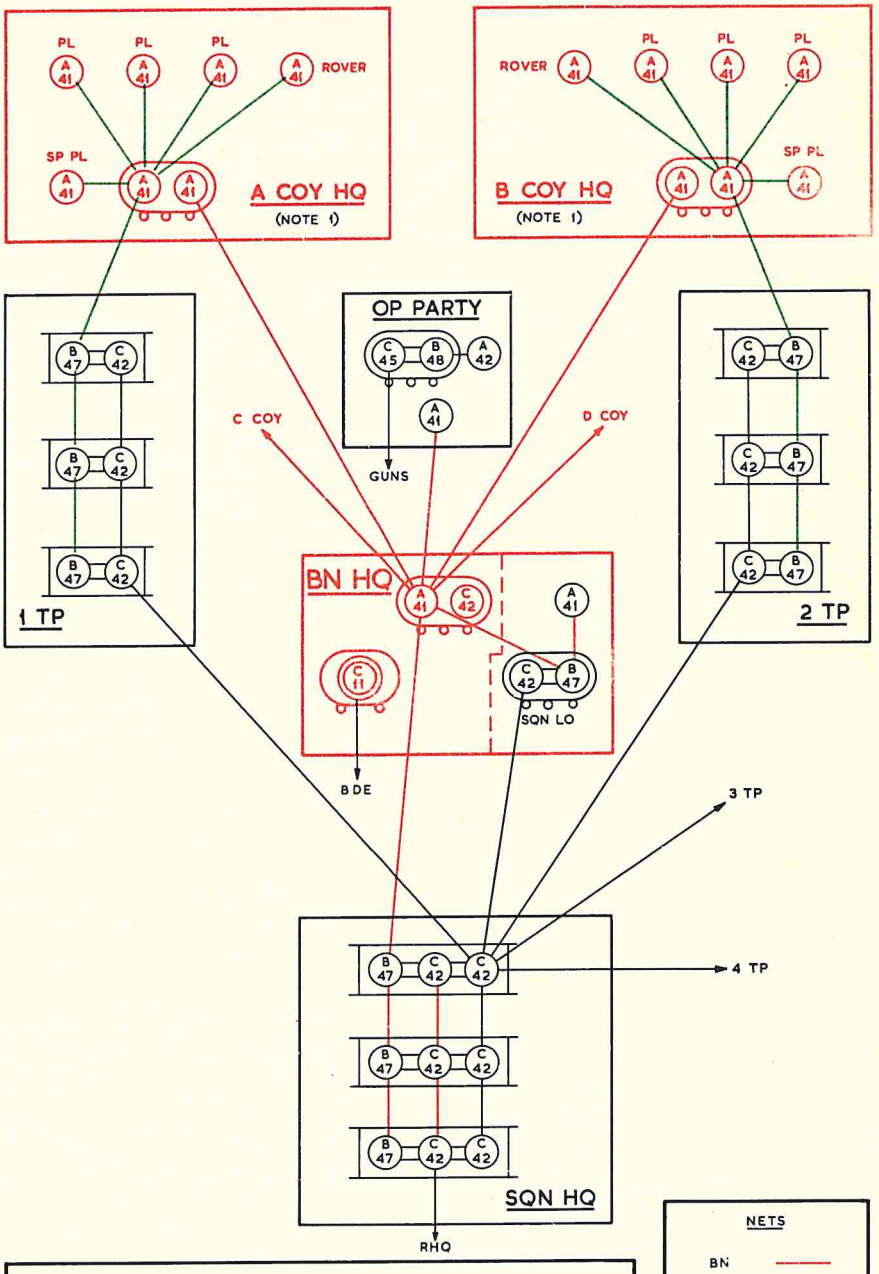
ARMD SQN IN SP OF DISMOUNTED INF BN



NOTES. 1. COYS REP ARE FROM BAOR BN ie A41 AT PL LEVEL

2. B47 COVERS FREQ RANGE COMMON TO BOTH A40 AND A41 SETS.

3. NOTE THAT THE ONLY DIRECT COMM BETWEEN 25 Pr OR 105mm PACK FOO AND TANKS IS ON THE INF NET. A 5·5in OR 155mm SP FOO HAS A C42 SET AND CAN BE ON THE TANK NET.

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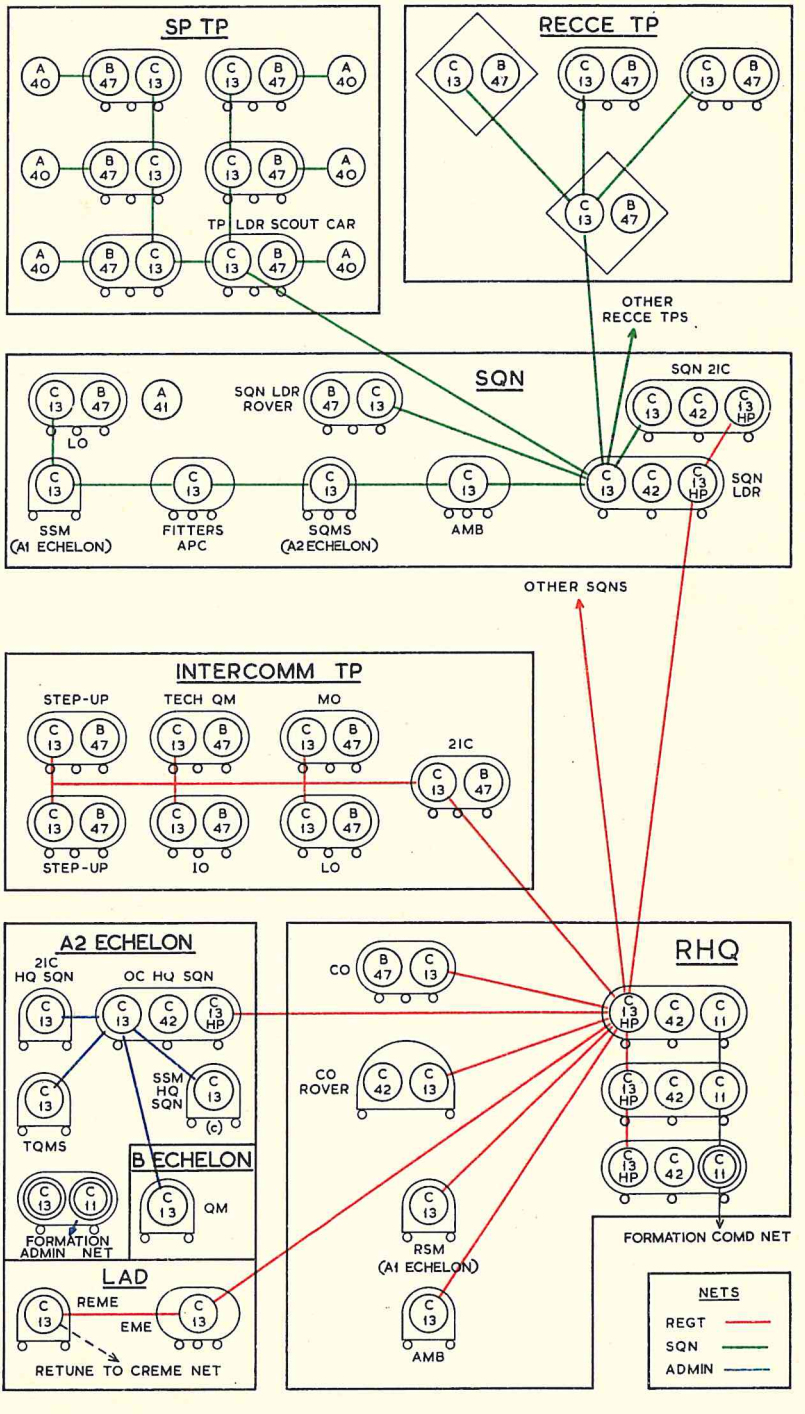
ARMD CAR REGT (ON SQN NETS)



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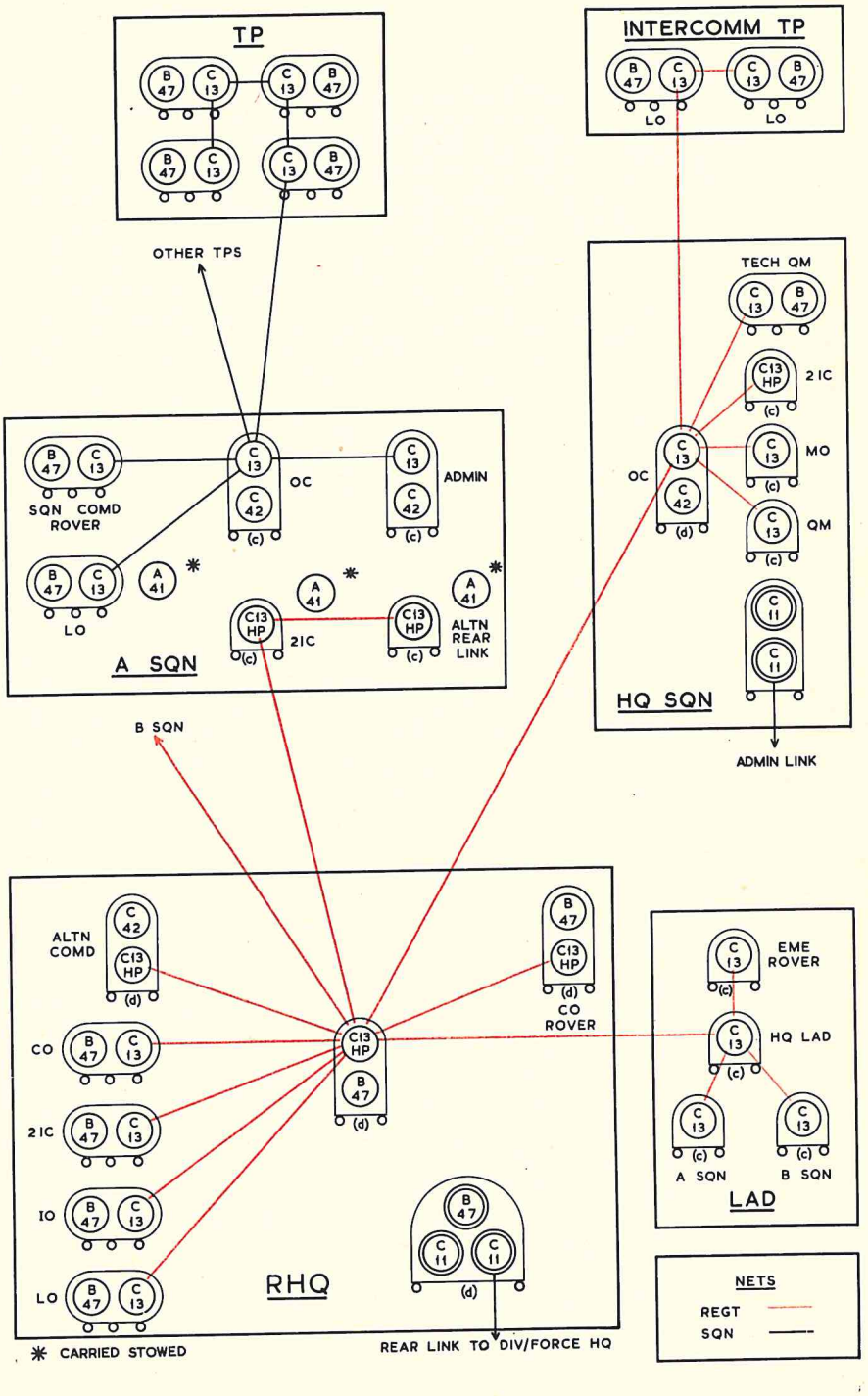
AIRPTBL REGT



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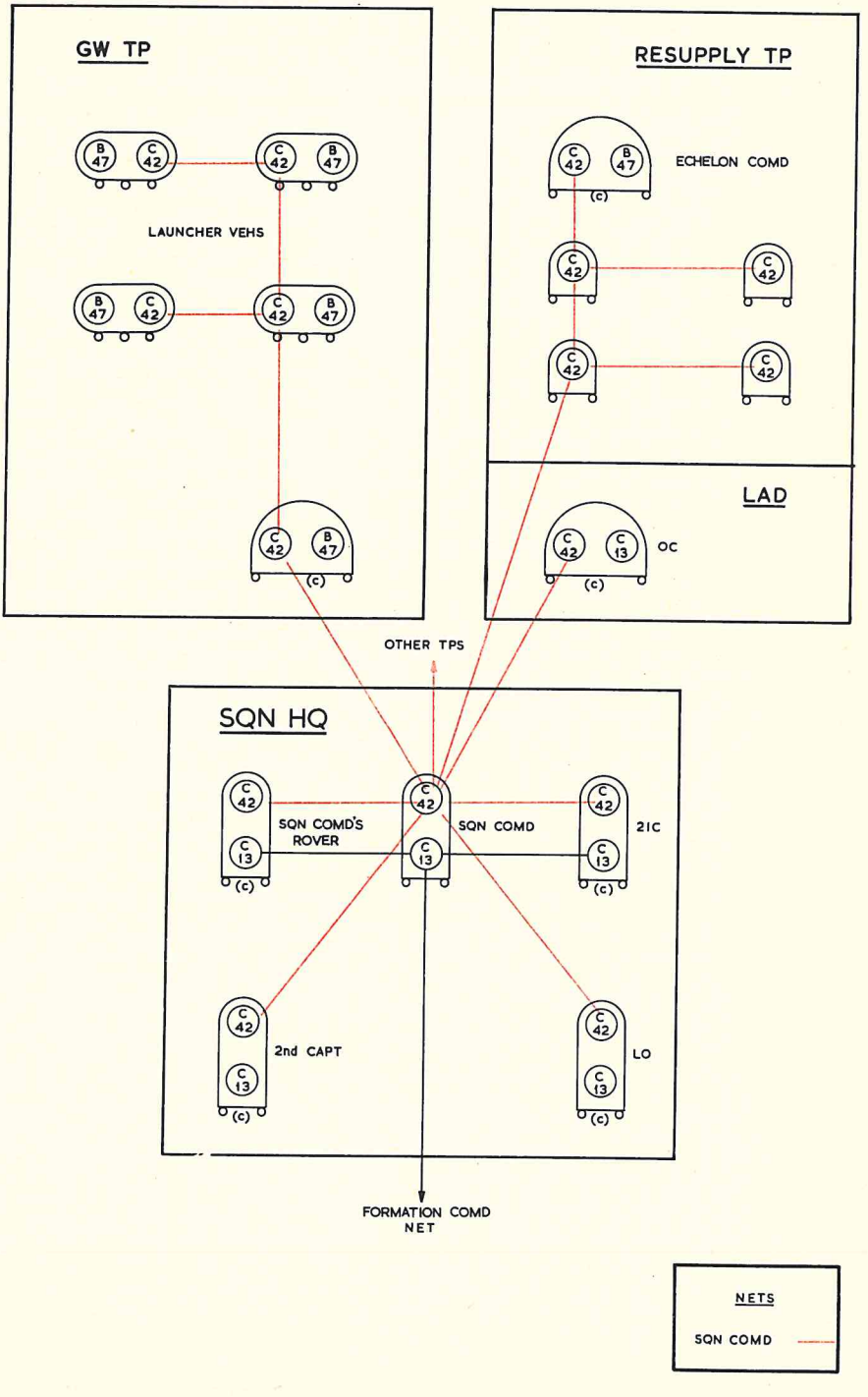
AIRPTBL GW SQN



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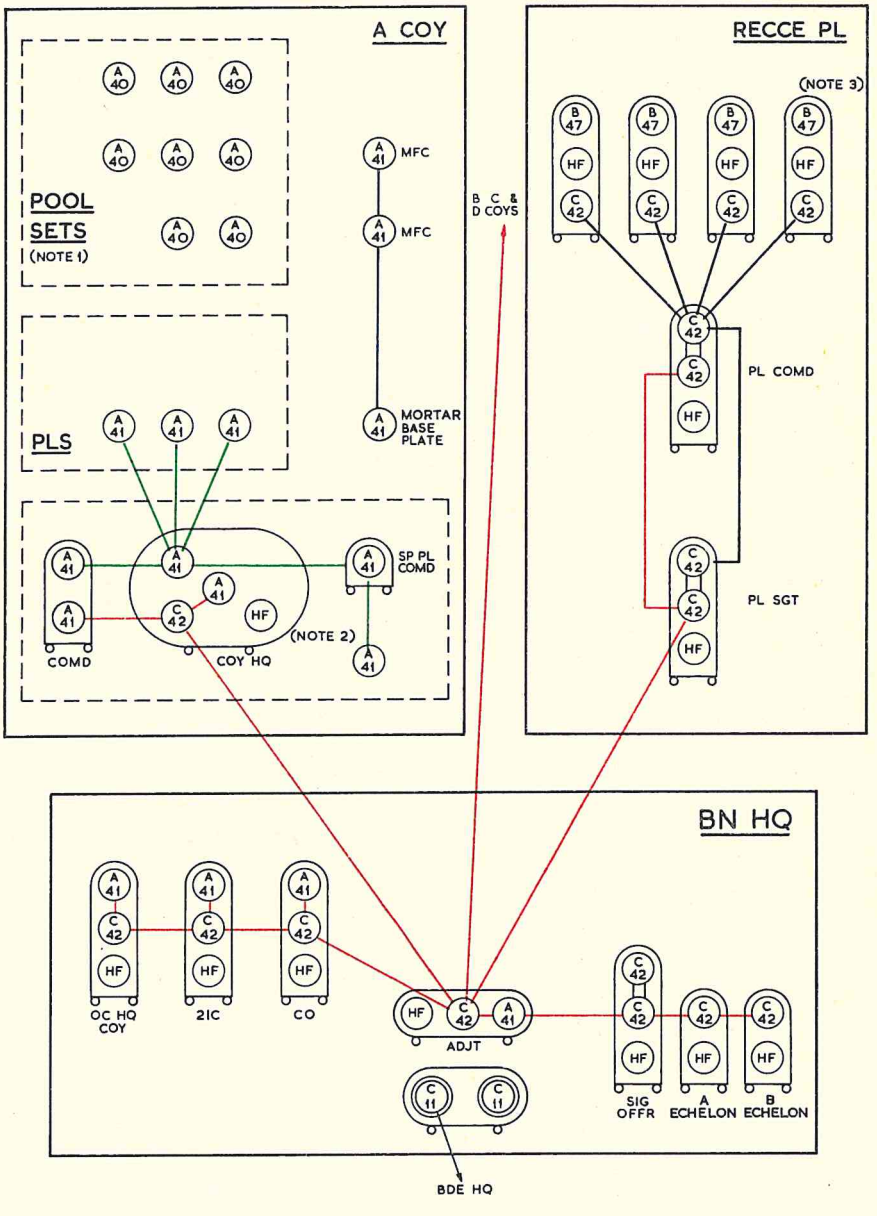
INF BN

FOR STAFF COLLEGE USE ONLY



NOTES. 1. BNS IN BAOR HAVE A40s DOWN TO SECTS.

2. HF RADIO WILL EVENTUALLY BE A13. MEANTIME, A510 (PLS) AND C12 AND 62 SETS WILL BE USED.

3. B47s WORK ON COY NETS.

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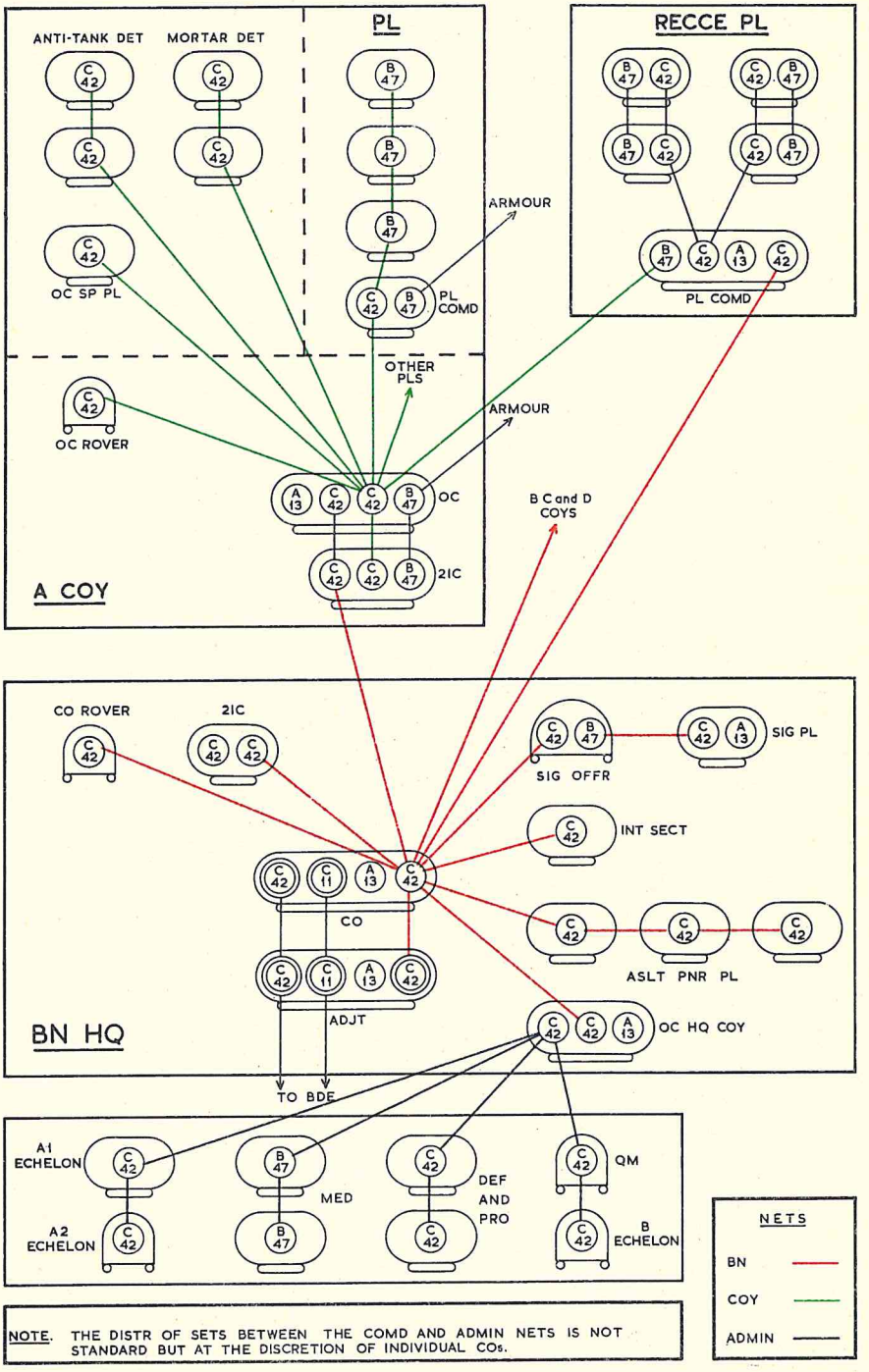
INF APC BN (MOUNTED COMMS)

FOR STAFF COLLEGE USE ONLY



NOTE. THE DISTR OF SETS BETWEEN THE COMD AND ADMIN NETS IS NOT STANDARD BUT AT THE DISCRETION OF INDIVIDUAL COs.

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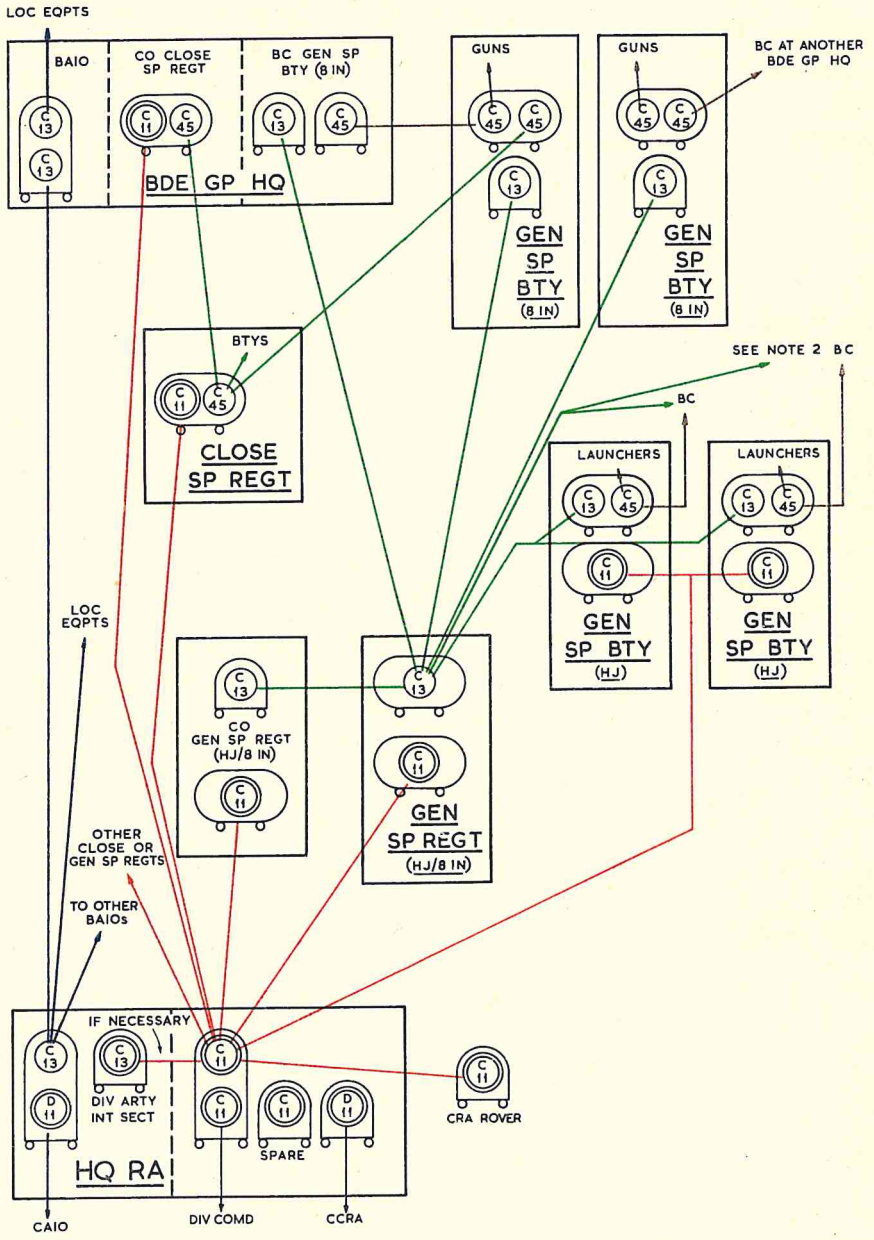
ARTY COMMS IN A DIV



NOTES 1. SETS EXIST ON DIV SIG REGT ESTB TO DUPLICATE BOTH THE CON SET ON CRA's COMD NET AND HIS REAR LINK TO CCRA. THESE WILL EITHER BE HELD IN RES BY SIGS OR DEPLOYED AT MAIN OR REAR DIV HQ.

2. COMMS NOT SHEWN. BCs HJ BTYS ARE EQUIPPED TO BE ON GEN SP REGT COMD NET AND BTY NET ONLY, BECAUSE THE BTYS ARE UNLIKELY TO BE ALLOTTED IN DS OF BDE GP.

NETS
- CRA's COMD
- CLOSE SP AND NUCLEAR SP REGTS
- HJ AND 8 IN BTYS
- ARTY INT

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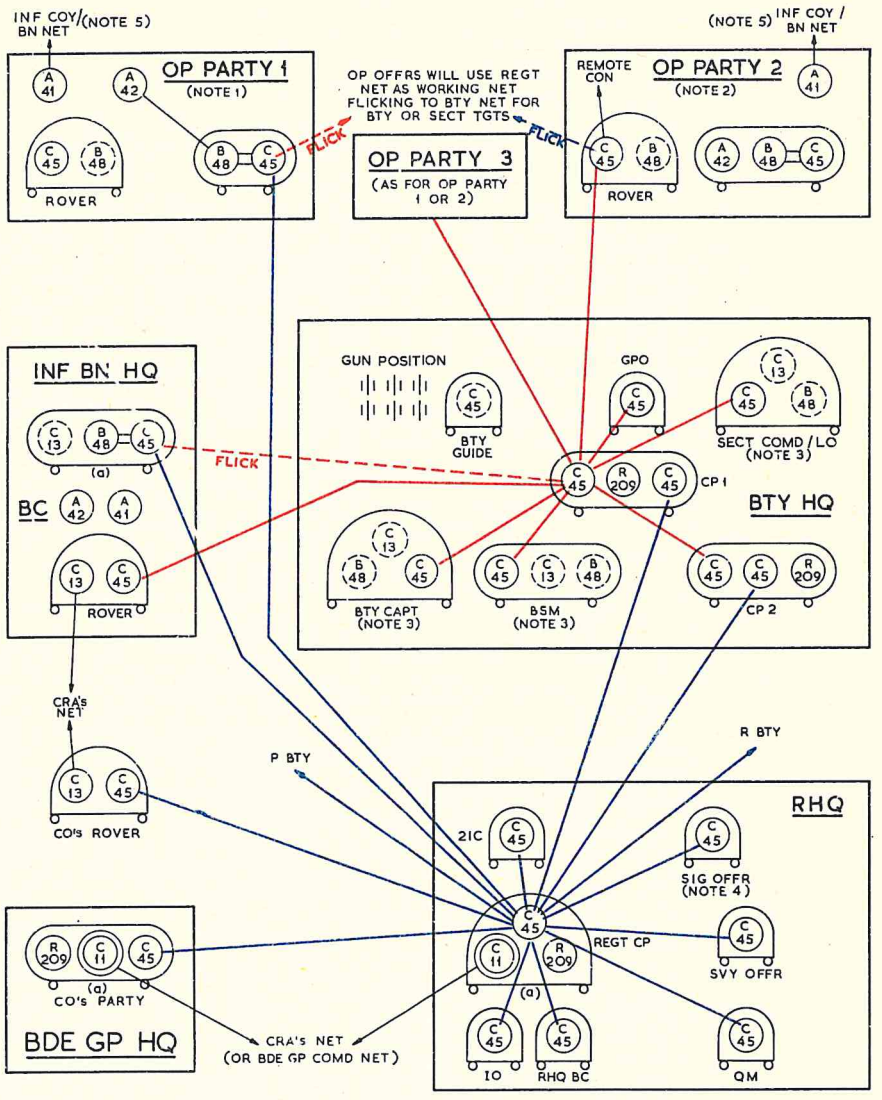
CLOSE SP REGT (25 PR/5·5 IN OR 105 MM PACK)



NOTES

1. SHOWS WALKING PARTY WORKING FROM A42 TO B48 AND REBROADCAST OVER C45 TO GUNS (REGT NET).
2. SHOWS OP OFFR WORKING IN OP UP TO 1000 YDS FROM VEH (¼-TON) - REMOTE CON TO C45 TO GUNS (BTY NET).
3. EITHER AS REPLACEMENT FOR OP OR BC's ROVERS OR IN LO ROLE.
4. TWO B47 GROUND STATIONS ARE CARRIED BY RA SIG TP FOR IMPROMPTU SHOOTS WITH AAC RECCE FLTS NOT CARRYING B48.
5. THE ONLY COMM BETWEEN THE BTY AND AN ARMD SQN IN SP OF AN INF BN IS THE BN COMD NET.
6. 155 MM SP REGTS ARE IDENTICAL, EXCEPT FOR FOLLOWING:-
   a. ADDITIONAL C42s IN OP AND BC VEHS (TANKS IN SP REGTS) AND BSM's (INSTEAD OF C13).
   b. IN SP REGTS DUTY OFFR IN RHQ HAS ¼-TON C45 AND THERE IS A 'GUN NET' BETWEEN ALL GUNS AND BTY CPs USING B48.
   c. CPs ARE FITTED FOR C45/C11 AND R209.

NETS
REGT
BTY
CRA's/ BDE GP

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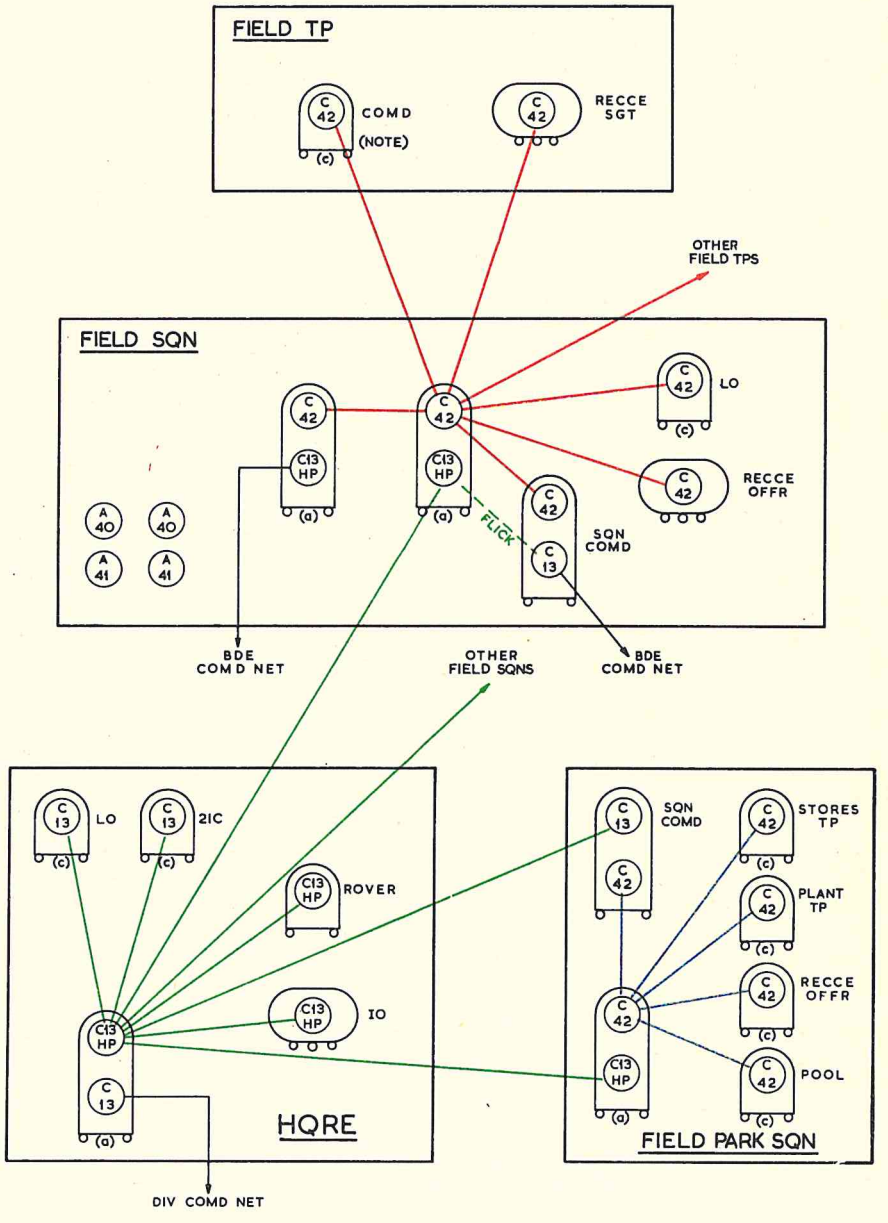
DIV ENGRS



NOTE. THIS SET CAN BE ON BN NET

NETS
FIELD SQN
FIELD PARK SQN
CRE COMD

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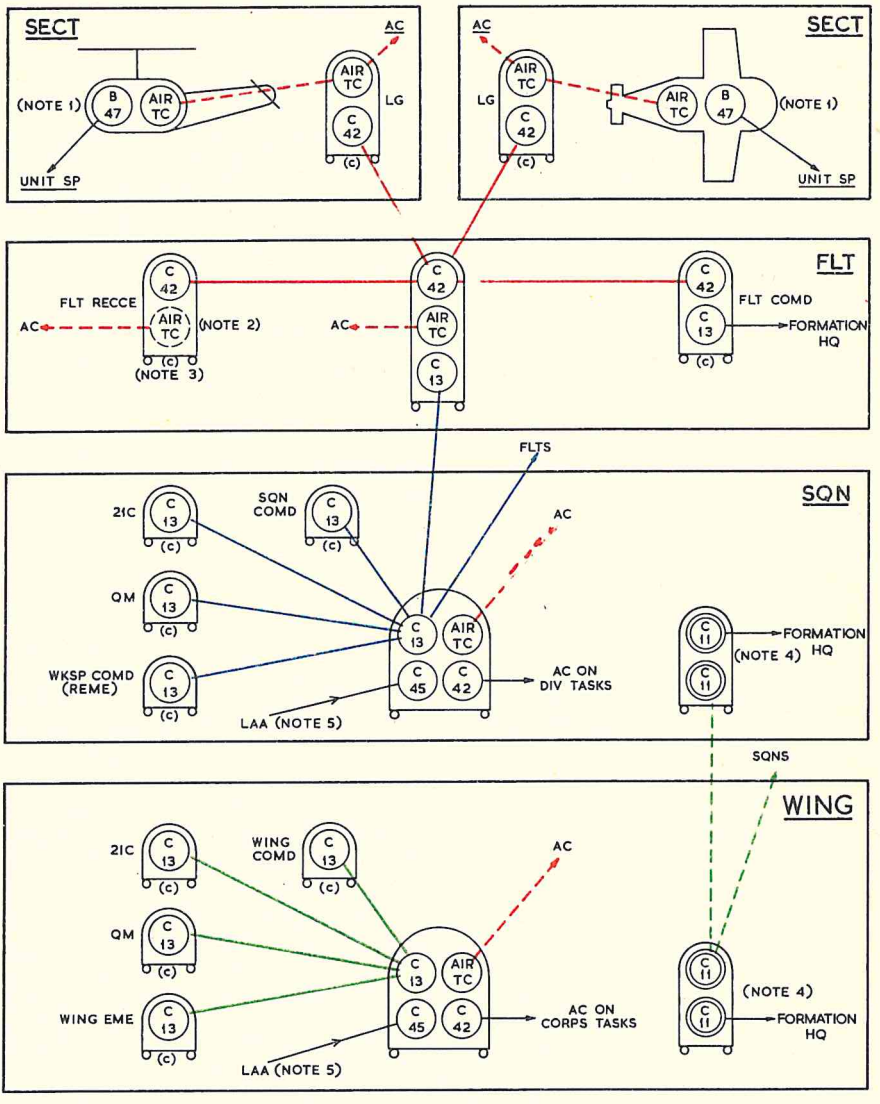
AAC



NOTES
1. B48 CAN BE FITTED AS AN ALTN TO B47. THIS SET MAY EVENTUALLY BE A COMBINED A41/A42.
2. SET IS TAKEN FROM FLT HQ VEH WHEN REQUIRED.
3. THIS WILL BE A SCOUT CAR WHEN FLT IS IN SP OF AN ARMD BDE GP.
4. PROVISONAL ONLY. NO R SIGS UNIT AT PRESENT EXISTS TO PROVIDE THESE COMMS.
5. RECEIVES LAA EARLY WARNING BROADCASTS. CAN BE USED TO NOTIFY AC MOV TO LOCAL AIR DEF.
6. AIR TC
   a. CURRENTLY A VHF NET. SETS AS FOLLOWS:-
      (1) BE20H FOR GROUND STATIONS
      (2) TR1998 IN AUSTER IX, BEAVER AND SCOUT.
      (3) PTR610 IN SKEETER.
      (4) SOCRAT IN ALOUETTE.
   b. IN FUTURE(1963/64) THE NET WILL BECOME UHF. SETS AS FOLLOWS:-
      (1) A43 FOR GROUND STATIONS
      (2) PTR170 IN ALL AC.

NETS
- AIR TC
- FLT COMD
- SQN COMD
- WING COMD
- WING HQ

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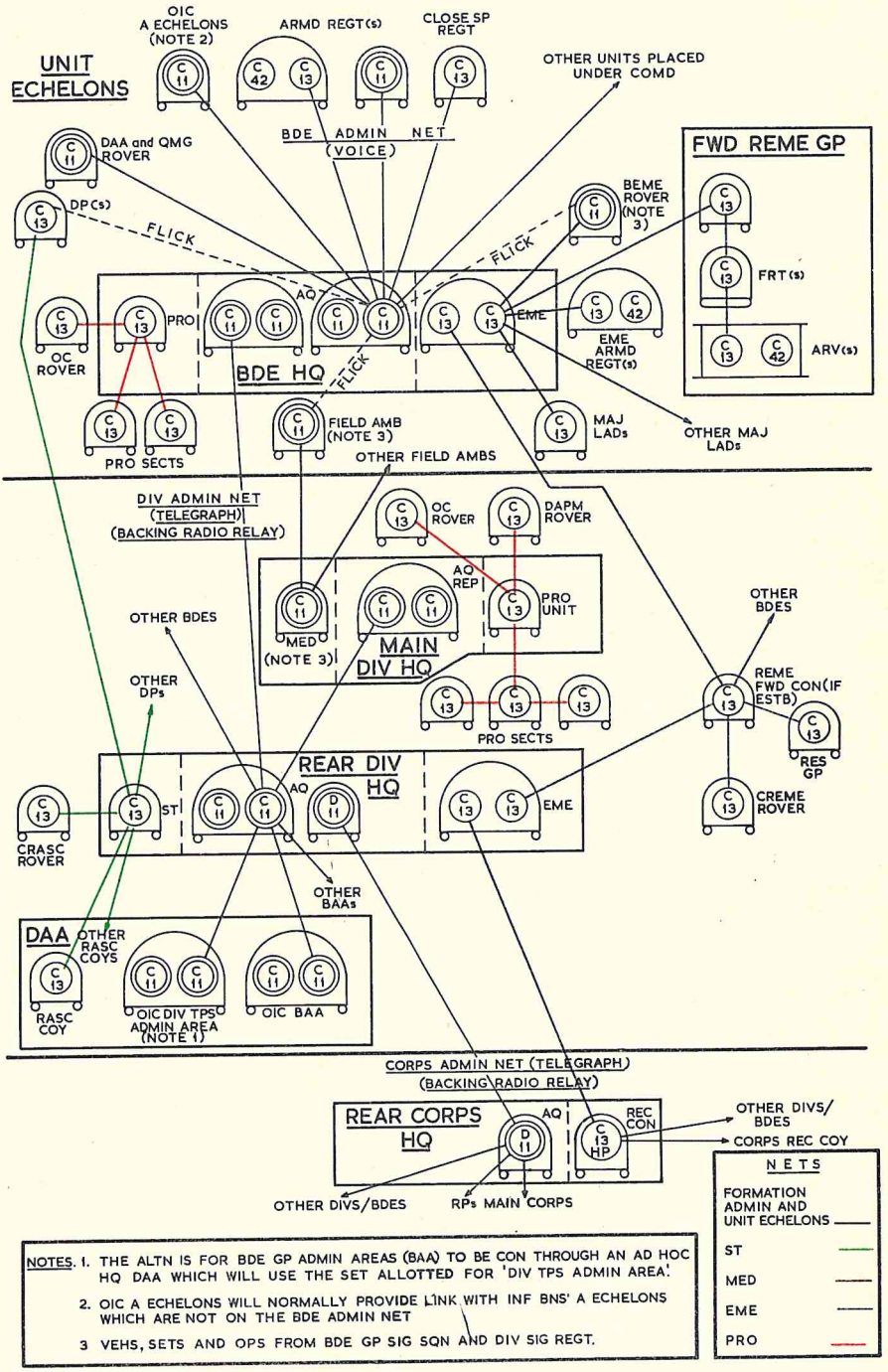
ADMIN COMMS (ADMIN UNDER DIV CON)

FOR STAFF COLLEGE USE ONLY



NOTES. 1. THE ALTN IS FOR BDE GP ADMIN AREAS (BAA) TO BE CON THROUGH AN AD HOC HQ DAA WHICH WILL USE THE SET ALLOTTED FOR 'DIV TPS ADMIN AREA'.

2. OIC A ECHELONS WILL NORMALLY PROVIDE LINK WITH INF BNS' A ECHELONS WHICH ARE NOT ON THE BDE ADMIN NET

3 VEHS, SETS AND OPS FROM BDE GP SIG SQN AND DIV SIG REGT.

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ADMIN COMMS (ADMIN UNDER BDE GP CON)

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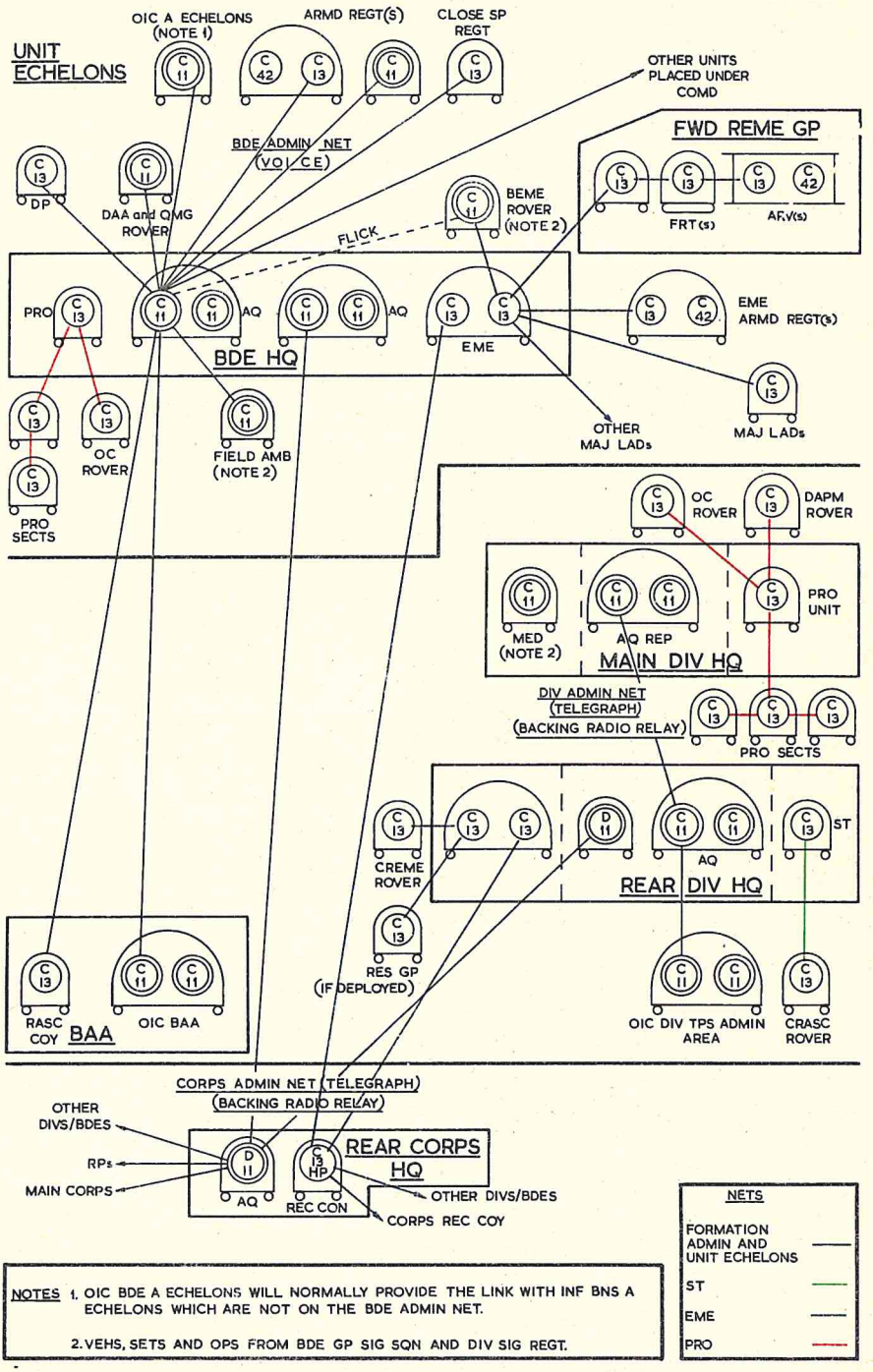

NOTES 1. OIC BDE A ECHELONS WILL NORMALLY PROVIDE THE LINK WITH INF BNS A ECHELONS WHICH ARE NOT ON THE BDE ADMIN NET.

2. VEHS, SETS AND OPS FROM BDE GP SIG SQN AND DIV SIG REGT.

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RESTD

STAFF COLLEGE 1963 COURSE

(Issued 17 Jan)

SOs' HANDBOOK - COMMS DIAGRAMS

1. Authority was given late in 1962 for the issue of VHF radio sets for use on formation comd nets and arty comd nets, except in AB formations. The sets are the SR C42 and SR C45 respectively. The existing HF set, the SR C11, is being retained as a standby, and as a precaution against VHF jamming.

2. This change was authorized after the Handbook had gone to press, so amdts to the comms diagrams in Part V are necessary. The pages chiefly affected (502-505) have been hastily reprinted, and are up-to-date as issued. Manuscript amdts to other pages are required as follows:-

a. page 507:- in the tentacles at Bde Gp and Div levels change A13 to A41.

b. page 511:- in RHQ the SR C11 in the altn comd veh, and the SR C13 in the tanks are now HF standby only. One of the two SR C42 is now the rear link (R SIGS op) on the formation comd net; the other should be joined in red as being on the regt comd net.

c. Page 512:- at bn HQ change SR C11 working to bde to C42, insert SR C11 alongside it as standby.

d. Page 515:- in RHQ change the SR C11 shown as rear link to C42.

e. Page 516:- in sqn HQ the SRs C13 are now standby only. The 2nd Capt's SR C42 is the set on the formation comd net.

f. Page 518:- in bn HQ change SR C11 working to bde HQ to C42.

g. Page 520:- the following are now SR C45, with SR C11 standby:-

(1) all stations (shown in red) on CRA's comd net,

(2) in HQRA, the link to CCRA, and the spare set,

change each to C45, and insert C11 alongside, as standby, delete "Div Comd" and its associated arrow in HQRA.

h. Page 521:- in RHQ and Bde Gp HQ the SRs C11 are now standby only. Insert alongside each a SR C42 (R SIGS op) on the bde gp comd net, and a SR C45 (R SIGS op) on the CRA's net. As a result of this increase an extra radio veh is required for both the regt CP and the CO's party.

j. Page 524:- in the field sqn the SR C13 HP shown on the bde comd net, is now standby. The SR C42 in the same veh now acts as rear link. The sqn comd's SR C13 is now solely for use on the CRE comd net, for it cannot work to bde HQ.

in HQRE change the SR C13 shown on the div comd net to SR C42.

k. Page 526:- change SR C13 (once) and SR C11 (twice) shown as working to formation HQ to SR C42 in all three cases.

Camberley.

RESTD

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